

# C-4000 ZOOM

REFERENCE MANUAL

#### <Click Here>

#### **CAMERA OPERATION MANUAL**

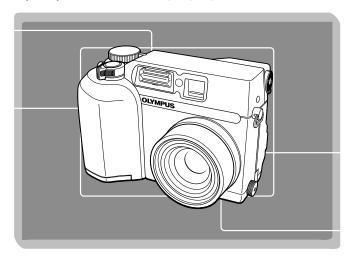
Explanation of digital camera functions and operating instructions.

## DIGITAL CAMERA - PC CONNECTION OPERATION MANUAL

Explanation of how to download images between your digital camera and PC.

### **OLYMPUS**

## CAMEDIA C-4000 ZOOM



#### REFERENCE MANUAL

- Thank you for purchasing an Olympus digital camera. Before you start to use your new camera, please read these instructions carefully to enjoy optimum performance and a longer service life. Keep this manual in a safe place for future reference.
- We recommend that you take test shots to get accustomed to your camera before taking important photographs.
- ■The images and illustrations in this manual may differ from their real versions.

#### For customers in Europe



"CE" mark indicates that this product complies with the European requirements for safety, health, environment and customer protection. "CE" mark cameras are intended for sales in Europe.

#### For customers in North and South America

#### For customers in USA

**Declaration of Conformity** 

Model Number : C-4000 ZOOM Trade Name : OLYMPUS

Responsible Party : Olympus America Inc.

Address : 2 Corporate Center Drive, Melville, New York

11747-3157 U.S.A.

Telephone Number: 1-631-844-5000

Tested To Comply With FCC Standards

FOR HOME OR OFFICE USE

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) This device must accept any interference received, including interference that may cause undesired operation.

#### For customers in Canada

This Class B digital apparatus meets all requirements of the Canadian Interference-Causing Equipment Regulations.

#### **Trademarks**

- IBM is a registered trademark of International Business Machines Corporation.
- Microsoft and Windows are registered trademarks of Microsoft Corporation.
- Macintosh is a trademark of Apple Computer Inc.
- All other company and product names are registered trademarks and/or trademarks of their respective owners.
- The standards for camera file systems referred to in this manual are the "Design Rule for Camera File System/DCF" standards stipulated by the Japan Electronics and Information Technology Industries Association (JEITA).

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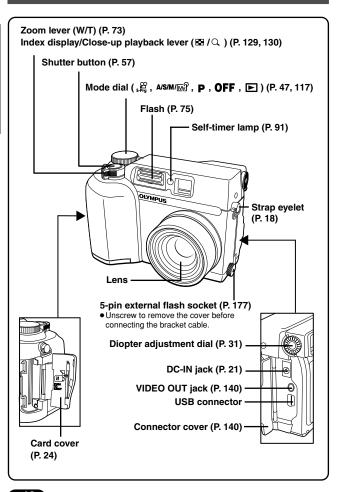
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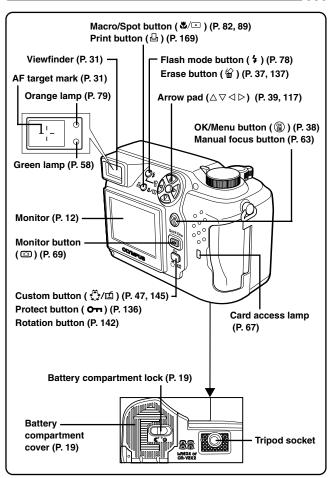
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#### Camera



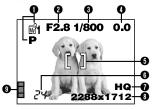


## Monitor indications — Shooting information

The indications vary depending on the shooting mode.\*

When INFO is set to OFF: The information below is displayed constantly in the shooting mode. (After operating the buttons or closing the menu, the information which appears in the ON mode (illustrated to the right) is displayed for approx. 1 second, then disappears.)

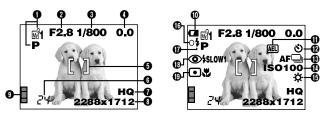
When INFO is set to ON: The information below is displayed constantly in the shooting mode.





\*The illustrations show examples of indications displayed in the 🔊 1 mode.

Items	Indications	Ref. page
Shooting mode	P, A, S, M, 1 , 1 , 1 1 2 , 1 1 3 , 1 1 1 4 ,	P. 47
	<b>2</b> , <b>1</b> , <b>4</b> , <b>6</b> , <b>8</b> , <b>5</b> , <b>8</b>	
2 Aperture value	F2.8 – F11	P. 53, 55
3 Shutter speed	16 – 1/1000	P. 54, 55
Exposure compensation	-2.0 - +2.0	P. 108
Exposure differential	-3.0 - +3.0	P. 56
AF target mark	=	P. 62
Number of storable	24	P. 69, 71,
still pictures		103
Seconds remaining	24"	
Record mode	TIFF/SHQ/HQ/SQ1/SQ2	P. 102

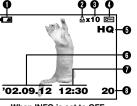


Items	Indications	Ref. page
Number of pixels	2288 x 1712, etc.	P. 103
Memory gauge		P. 16
Battery check		P. 16
AE lock     AE memory	[AEL] [MEMO]	P. 84, 87 P. 88
P Self-timer	<b>৩</b>	P. 91
Drive mode	□, □, AF□, BKT	P. 92
<b>(</b> ) ISO	ISO100, ISO200, ISO400	P. 107
(B) White balance	🌣 , 凸 , 🌣 , 崇 , 崇 , 崇	P. 110
⊕ Green lamp	0	P. 58
Flash stand-by     Camera movement     warning     Flash charge	<ul><li>Lights.</li><li>Blinks.</li><li>Blinks.</li></ul>	P. 80
<b>⊕</b> Flash mode	<ul><li>♠, ♠, ♣, ♣ SLOW1,</li><li>♣ SLOW2, ♠ ♣ SLOW1</li></ul>	P. 75
Spot metering/     Macro mode	· , • , · • •	P. 82, 89

## Monitor indications — Playback information

INFO setting on the menu allows you to select how much information to display. (\$\mathbb{Z}\$ Information display (P. 115)

#### Still picture playback information



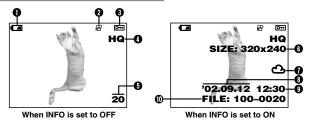


When	INFO	is set	to	OFF
------	------	--------	----	-----

When INFO is set to ON

Items	Indications	Ref. page
Battery check		P. 16
2 Print reserve	<del>-</del>	P. 171
Number of prints	x2 – x10	P. 171
<b>●</b> Protect	On .	P. 136
Record mode	TIFF, SHQ, HQ, SQ1, SQ2	P. 102
3 Date	'02. 09. 12	P. 27
<b>⑦</b> Time	12:30	P. 27
3 Frame number	20	-
Number of pixels (resolution setting)	2288x1712, etc.	P. 103
Exposure compensation	-2.0 - +2.0	P. 108
White balance	후, 凸, 추, 취, 원, 第	P. 110
<b>@</b> ISO	ISO100, ISO200, ISO400	P. 107
(B) File number	100 – 0020	P. 162

#### Movie playback information



Items	Indications	Ref. page
Battery check		P. 16
Movie mark	82	P. 35
Protect	On	P. 136
Record mode	HQ, SQ	P. 102
6 Frame number	20	-
1 Number of pixels	320x240, etc.	P. 103
White balance	☆, 凸, ኞ, ∺, ∺, ∺	P. 110
3 Date	'02. 09. 12	P. 27
① Time	12:30	P. 27
File number     Recording time	FILE:100 – 0020 0"/15" During movie playback, the recording time appears as follows:  O"/15"  Playing time  Total recording time	P. 163 P. 71

#### **⊘** Note ······

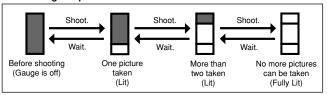
 The indications that appear on a movie picture that has been selected and displayed from the index display are different from those that appear when the movie picture is displayed using the movie play function (P. 117, 120).

## Monitor indications — Memory gauge & battery check

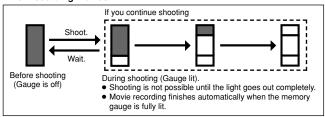
#### Memory gauge

The memory gauge lights when you take a picture. When the gauge is lit, the camera is storing a picture on the SmartMedia card. The memory gauge indication changes as shown below depending on the shooting status. When the memory gauge is full, wait until the light goes out before you take any more shots.

#### When taking still pictures

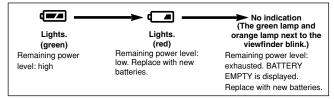


#### When recording movies



#### Battery check

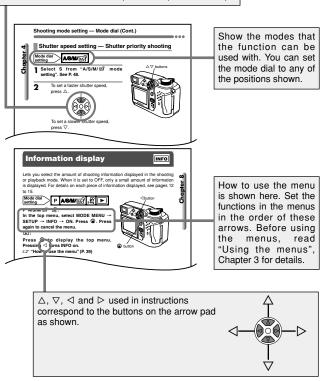
If the remaining battery power is low, the battery check indication changes as follows when the camera is turned on or while the camera is in use.



#### How to use this manual

The instructions in this manual use a series of numbers for each operating procedure and button/dial illustration. Follow these numbers in order when operating the camera.

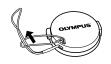




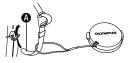
• This sample page is only for your reference. It may differ from the actual page in this manual.

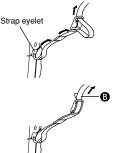
#### **Attaching the strap**

- Attach the string to the lens cap: Pull the string loop through the hole in the lens cap. Put the other end of the string through the string loop.
- 2 Loosen the strap in both stoppers. Pull out the ends of the strap from each stopper, then pull them out of each ring.
- Thread one end of the strap (1) through the string loop (attached to the lens cap in step 1). Then, thread it through the camera's strap eyelet.
- 4 Thread the end of the strap back through the ring and stopper as indicated by the arrows.
- 5 When you have a length that you like, pull on the strap in the stopper 3 to make sure it is securely fastened.
- 6 Attach the strap to the other strap eyelet following steps 3 5.











- Be careful with the strap when you carry the camera, as the strap can easily catch on stray objects, causing serious damage.
- Attach the strap correctly as shown so that the camera does not fall off. If
  the strap is attached incorrectly and the camera falls off the strap, Olympus
  is not responsible for any damages.

#### Loading the batteries

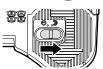
This camera uses 2 CR-V3 lithium battery packs or 4 AA (R6) NiMH batteries, NiCd batteries, alkaline batteries or lithium batteries.

#### ! Important:

- CR-V3 lithium battery packs cannot be re-charged.
- Do not peel the label on a CR-V3 lithium battery pack.
- Make sure the camera is turned off (i.e. the mode dial is set to OFF).



2 Slide the battery compartment lock on the battery compartment cover in the direction of ∋.



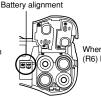
- 3 Slide the battery compartment cover in the direction of the arrow (A) with your fingertip and open it (B).
  - Do not use your fingernail, as this could result in injury.



4 Insert the batteries in the direction shown in the illustration.



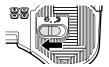
When using CR-V3 lithium battery packs



When using AA (R6) batteries

- 5 Close the battery compartment cover, then press it down (6) and slide it in the opposite direction of the arrow printed on it (6).
  - When pressing the battery compartment cover shut, be sure to press the center of the cover, as it may be difficult to close properly by pressing the edge.
  - Make sure the cover is completely closed
- 6 Slide the battery compartment lock on the battery compartment cover in the direction of ⊕.





#### Note ……

- If the camera is left for 1 hour with the batteries removed, all the internal settings will revert to the default settings.
- If the terminals inside the battery compartment are dirty, it will noticeably shorten the life of the batteries. Do not touch the inside of the battery compartment as this may cause the terminals to become dirty.

#### Selecting optional batteries or AC adapter

The following types of battery or AC adapter can be used. Choose the power source best suited to the situation.

#### ■ Lithium battery pack

Since the CR-V3 lithium battery pack has an exceptionally long service life, it is convenient when traveling. The CR-V3 lithium battery pack cannot be recharged.

#### ■ Rechargeable batteries

Olympus NiMH batteries are rechargeable and economical. In addition, the low-temperature resistance makes them a good choice for cold areas.

#### AA (R6) alkaline batteries

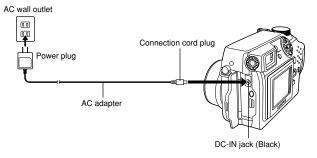
When you need batteries in a hurry, you can use AA (R6) alkaline batteries, which are easy to obtain anywhere. However, the number of pictures that you can store in the camera may vary considerably with AA alkaline batteries, depending on the battery manufacturer, camera shooting conditions, etc. Use this type of battery only when you have no other choices available. Turn off the monitor whenever possible to save power.

#### AC adapter

An optional Olympus CAMEDIA-brand AC adapter allows you to power your digital camera from a common AC wall outlet. Be sure to use the specified AC adapter. An AC adapter is useful for time-consuming tasks such as image downloads.

Use an AC adapter designed to operate on the AC voltage in the area the camera is being used.

Consult your nearest Olympus dealer or Service center for details.



#### Note ·····

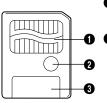
- Manganese (zinc-carbon) batteries cannot be used.
- The lives of battery packs may vary according to the type of battery, manufacturer, camera shooting conditions, etc.
- If the battery power runs out while the camera is connected to a PC, image data will be corrupted. It is recommended that you use the optional AC adapter when transferring images to a PC. Do not disconnect or connect the AC adapter while the camera is communicating with the PC.
- Power is consumed continuously during the conditions described below.
   This could reduce the number of pictures that can be taken.
  - ·When the monitor is turned on.
  - •Repeated auto-focus by depressing the shutter button halfway.
  - ·Repeated power zoom adjustments.
  - •When the Fulltime AF mode is turned on.
  - •When the monitor is in the playback mode for an extended period of time.
  - •When communicating with a PC.
- Carefully read the "GENERAL PRECAUTIONS" included in the package and the AC adapter's instructions before use.
- When using an AC adapter, power is supplied to the camera by the AC adapter even if batteries are loaded in the camera. The AC adapter does not charge batteries that may be in the camera; it only provides power to the camera.
- Do not remove or load batteries and/or do not disconnect or connect the AC adapter while the camera is turned on. Doing so could damage the camera's settings or functions.

#### **Card basics**

This camera uses SmartMedia to record pictures. This reference manual uses the term "card" when referring to SmartMedia.

#### What is SmartMedia?

Images recorded and stored on SmartMedia can easily be deleted, overwritten, and/or edited on a PC.



#### Contact area

Comes into contact with the camera's signal read contact.

#### 2 Write-protect area

Attach the provided write-protect seal when you want to protect your data from accidental erasure or overwriting. Do not attach the write-protect seal if you want to record images on a card.

#### 1 Index area

Use the provided index label to indicate the card's contents.

#### Compatible SmartMedia cards

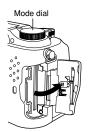
- Provided 16 MB standard card
- Optional Olympus CAMEDIA-brand cards (4 MB 128 MB; all cards except 2MB)
- Commercially-available 3 V (3.3 V) cards (4 MB 128 MB; all cards except 2MB)

#### 

- 2 MB cards cannot be used.
- Commercially-available 5 V cards cannot be used.
- This camera may not recognize a non-Olympus card (such as 3 V (3.3 V)) or a card that was formatted on another device (such as PC, etc.). Before use, be sure to format the card on this camera (P. 26, 139).
- Operating temperature: 0°C to 55°C (32°F to 131°F); Storage temperature:
   -20°C to 65°C (-4°F to 149°F); Humidity: up to 95 %
- Put the card into its anti-electrostatic case for storage or transportation.
- Do not bend, drop, or apply any physical shock to the card.
- Read the provided card instruction manual carefully before use.
- Do not touch the contact area of the card.

#### Inserting/removing the card

- Make sure the camera is turned off (i.e. the mode dial is set to OFF).
- 2 Open the card cover.



- Inserting the card Insert the card fully with the contact area facing towards the monitor side. Insert until you feel it locked into place.
  - Hold the card in a straight orientation to the card slot. Do not attempt to insert the card at an angle.
  - Note the orientation of the card. If it is inserted incorrectly, it may become jammed.
  - Removing the card Push in the card lightly to unlock it, then pull it out.
- 4 Close the card cover securely until it clicks.



#### **⊘** Note ······

- Never open the card cover, eject the card, remove the batteries, or disconnect the optional AC adapter while the camera is in use or the camera is communicating with a computer. <u>Doing so could destroy all</u> <u>data on the card.</u>
- Destroyed data cannot be restored.

#### Power on/off

- Before turning the camera on, press the tabs on the lens cap to remove it.
- **2** Set the mode dial to P, A/S/M/ M,
  - The camera turns on.
  - The lens moves out when the mode dial is not set to ►.
- 3 Set the mode dial to OFF.
  - The power turns off.





• To save battery power, the camera automatically enters the Sleep mode after about 3 minutes of non-operation. The camera activates again as soon as you touch the zoom lever or mode dial, etc.

#### Monitor appearance

When the power is turned on/off, a startup/shutdown image is displayed on the monitor.

You can select your favorite image for this function (P. 160).

Startup/Shutdown image (factory default setting)



#### Card check

When the power is turned on, the camera checks the card automatically.

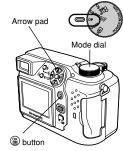
Indications	TIPS
NO CARD	There is no card in the camera or the card is not locked into place.  → Insert a card. If a card is already inserted, remove it and insert it again.
CARD ERROR	There is a problem with the card.  → Use a different card.
CARD SETUP  (POWER OFF)  (F) FORMAT  SELECT GOOM	The card cannot record, play back or eraspictures.  → Format the card.  ① Press ▽ to select ⑰ FORMAT, then press ⑧.  • The ⑰ FORMAT screen appears.  ② Press △ to select YES, then press ⑧ to start formatting.
A CAUTION ERASING ALL  YES  NO  SELECT♦ ⊕ GO♦ ØX	When formatting is complete, the camera is ready for shooting.     Formatting erases all data saved on the card.

#### **Date/time setting**

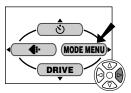
It is possible to set the date/time of the camera's built-in clock. Since the date and time is saved with recorded pictures, be sure to set it correctly.

#### ■ Set the mode dial to P.

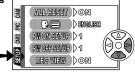
- Be sure to take off the lens cap before you turn the camera on (P. 25).
- **?** Press 🖺 .
  - The monitor turns on automatically and the top menu appears.



**3** Press ▷ on the arrow pad to select MODE MENU.

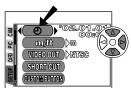


- **4** Press ∇ to select SETUP, then press ▷.
  - The items in the SETUP menu appear.



**5** Press  $\triangle \nabla$  to select  $\mathfrak{G}$ , then press  $\triangleright$ .

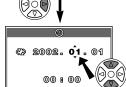
• The ② screen appears.



- press  $\triangle \nabla$  to select the date format.
  - Select any one of the following formats: D-M-Y (Day/Month/Year) M-D-Y (Month/Dav/Year) Y-M-D (Year/Month/Day)
  - This step and the following steps show the procedure used when the date and time settings are set to Y-M-D.
- 00 8 00 SELECT → **I** SET → **G** GO → O screen
- Press ▷ to move to the year (Y) setting.
- $oldsymbol{Q}$  Press  $\triangle \nabla$  to set the year. When the year is set, press ≥ to move to the month (M) setting.
  - Repeat this procedure until the date and time are completely set.
  - To move back to the previous setting. press <□.
  - The camera can only display the time in "number of hours", or what is commonly known as military time. Consequently, 2 p.m. would be 14:00 hours, or 12:00 hours + 2:00 hours =14:00 hours.



The first two digits of the year cannot be changed.



SELECT → IN SET → GO → OF

- 9 Press 🛎 .
  - The camera returns to the SETUP menu.
  - If (a) is pressed again, the menu will disappear.
  - For a more accurate setting, do not press
     until the time is actually at 00 seconds.
     The camera's built-in clock starts when you press this button.



## 10 To turn the camera off, set the mode dial to OFF.

The lens retracts

#### ..... • Note .....

- The current settings stay the same even when the power is turned off, unless they are readjusted.
- The date setting will be canceled if the camera is left with no batteries for approximately 1 hour. If this happens, you will need to set the date again.

#### Selecting a language

Select a language for on-screen display. This reference manual shows the English on-screen display in illustrations and explanations.

Available languages vary depending on the area where you purchased this camera.

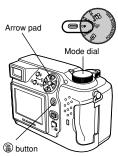
#### Set the mode dial to P.

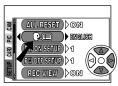
- Be sure to take the lens cap off before you turn the camera on (P. 27).
- 🤈 Press 🛞 .
  - The monitor turns on automatically and the top menu appears.
- **3** Press ▷ on the arrow pad to select MODE MENU.
- **4** Press  $\nabla$  to select SETUP, then press  $\triangleright$ .
  - The items in the SETUP menu appear.
- **5** Press  $\triangle \nabla$  to select  $\bigcirc \blacksquare$ , then press  $\triangleright$ .
  - The available languages are displayed.
  - Languages vary depending on the area of purchase.
- 6 Press △▽ to select a language. Press
  - The camera returns to the SETUP menu.
  - If (a) is pressed again, the menu will disappear.
- **7** To turn the camera off, set the mode dial to OFF.

Factory default setting: ENGLISH



 The current settings are retained even when the power is turned off, unless they are readjusted.

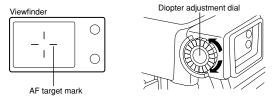






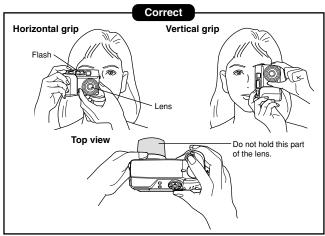
#### **Adjusting the diopter**

Turn the diopter adjustment dial to see the AF target mark clearly.



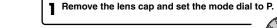
#### **Holding the camera**

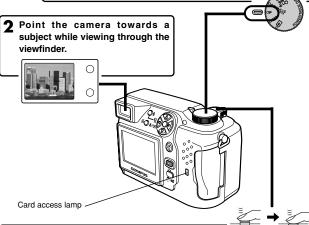
Hold the camera firmly with both hands while keeping your elbows at your sides to prevent the camera from moving. Keep your fingers and the strap away from the lens and flash.



#### Taking still pic<u>tures</u>







- To focus on the subject, press the shutter button halfway, slowly and gently.
  - When the subject is in focus, the green lamp lights steadily. "How to use the shutter button" (P. 57)



Green lamp

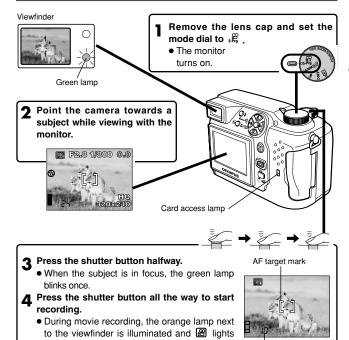
- 4 To start shooting, press the shutter button gently all the way (fully).
- When the orange lamp lights, the flash fires automatically when required.
  - The card access lamp blinks and the camera begins storing pictures on the card.

#### ♠ Note ••

 Never open the card cover, eject the card, remove the batteries, or disconnect an optional AC adapter when the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.

#### **Recording movies**





5 Press the shutter button all the way again to stop recording.

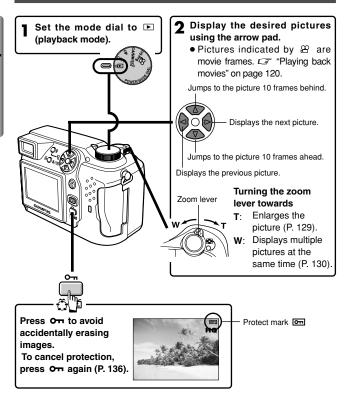
in red on the monitor.

- The card access lamp blinks and the camera starts writing the movie to the card.
- If the displayed seconds remaining reach "0", shooting finishes automatically and the camera starts writing the movie to the card (P. 71).

Seconds remaining

#### **Viewing still pictures**





#### Note ···

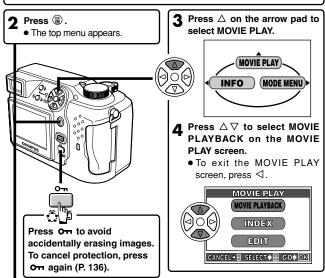
 If the camera is not operated for over 3 minutes when the monitor is on, the monitor turns off automatically. To turn the monitor on again, press any button.

#### **Playing back movies**



Display the movie frame (picture with ℘) you want to play back.

☐ See steps 1 and 2 on page 34.



- 5 Press 🖺 to start playback.
  - When playback finishes, the screen returns to the beginning of the movie.
  - If  $\circledR$  is pressed again when the movie playback is finished, the MOVIE PLAYBACK screen appears. To exit the movie playback mode and return to the MOVIE PLAY screen, press  $\triangle \nabla$  to select EXIT, then press  $\circledR$ .

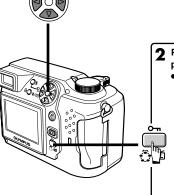
#### 

 The card access lamp blinks while movie data is being accessed. This may take a few seconds.

# **Protecting pictures**



Display the picture you want to protect by using the arrow pad. 🖙 See steps 1 and 2 on page 34.



- Press on. The picture is now protected.
  - To cancel protection, press again.

Displayed when a picture is protected.



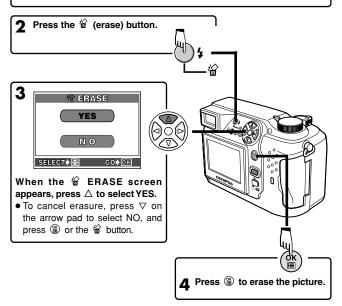
# Note •

- Protected pictures cannot be deleted with the ALL ERASE (all-frame erase) function, but they can be deleted with the FORMAT (format) function.
- Protection cannot be applied to pictures stored on a card with a writeprotect adhesive seal.

# **Erasing pictures**



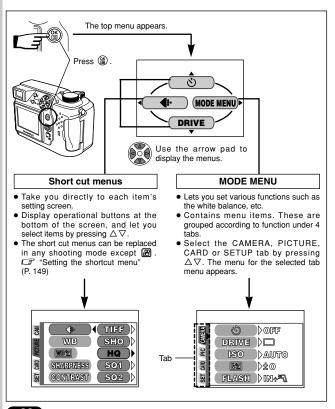
Display the picture you want to erase. F steps 1 and 2 on page 34.



- ····· 🛭 Note
- Protected pictures cannot be erased.
- Make sure the card is not write-protected. If the card is write-protected, you
  will not be able to erase pictures.

### What are the menus?

When you turn on the camera and press the (a) (OK/Menu) button, the menu that appears on the monitor is generally called "the top menu". Many functions of this camera are accessed using the menus. Below, we explain how the camera's menus work, using examples of menus displayed in the P mode. The top menu varies depending on the mode. If Modes & shortcut menus (P. 41)



returns to the

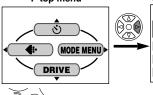
tab selection.

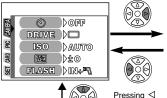
## How to use the menu

# **1** Press <sup>(a)</sup> to display the top menu. Press ▷.

# **2** Press $\triangle \nabla$ to select a tab and press $\triangleright$ .







# CAM: CAMERA

Functions for shooting: selecting drive modes, using digital zoom, etc.

#### PIC: PICTURE

Functions for adjusting images: selecting record modes, adjusting white balance, etc.

#### CARD: CARD

Card functions, such as formatting.

#### SET: SETUP

Functions for changing camera settings: date and time, shortcut settings, etc.



CAMERA tab

PICTURE tab

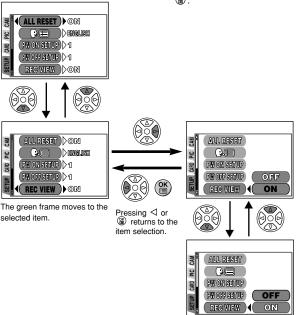








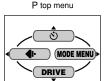
- **3** Press  $\triangle \nabla$  to select an item and press  $\triangleright$ .
- **4** Press  $\triangle \nabla$  to select the setting. Press a to save the setting.
  - To go back to shooting, press
     ⚠



## Note

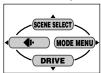
- Not all items can be selected. The items that can be selected depend on the status of the camera and the settings. For example, in the mode, you cannot select 2 in 1 in the CAMERA tab category.
- If you press the shutter button to take a picture while the menu is displayed, you can take pictures with the currently selected settings.
- If you want to save the settings after the camera is turned off, set ALL RESET to OFF. If "All reset — Saving the camera's settings" (P. 143)

# **Modes & Shortcut Menus**

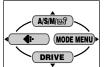


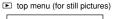














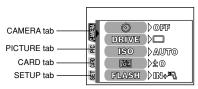
▶ top menu (for movies)



<b></b>	Sets self-timer shooting.	P. 91
SCENE SELECT	Jumps to the virtual dial screen. You can select a shooting mode.	P. 47
A/S/M/®	Jumps to the virtual dial screen. You can select a shooting mode.	P. 48
<b>1</b> -	Sets the record mode.	P. 102
DRIVE	Selects a sequential mode from (single-frame shooting), (sequential shooting), AF (AF sequential shooting) or BKT (auto bracketing).	P. 92
DIGITAL ZOOM	The maximum optical zoom (3x) can be extended even more by the 3.5x digital zoom, making possible up to approx. 10x zoom.	P. 74
	Runs through all saved pictures one after another.	P. 119
MOVIE PLAY	Plays back movies. You can also make indexes of still-shots from movies.	P. 120
INFO	Changes the amount of shooting information displayed on the monitor.	P. 155
allin	Displays a histogram showing the luminance distribution of recorded pictures.	P. 157

# Tabs & MODE MENU functions (shooting)

In the shooting mode, the MODE MENU has 4 tabs. Press  $\Delta \nabla$  to select a tab and display the associated menu items.



CAMERA tab		
৩	Sets self-timer shooting.	P. 91
DRIVE	Selects a sequential mode from ☐ (single-frame shooting), ☐ (sequential shooting),  AF☐ (AF sequential shooting) or BKT (auto bracketing).	P. 92
ISO	Selects ISO sensitivity from AUTO/100/200/400.	P. 107
\$72	Adjusts the flash intensity for different shooting conditions.	P. 81
FLASH	When using an external flash, you can choose whether to use it with the built-in flash or by itself.	P. 177
\$ SLOW	Adjusts the flash for slow shutter speeds.	P. 76
NOISE REDUCTION	Reduces the noise on images during long exposures.	P. 116
MULTI METERING	Decides the best exposure by metering up to 8 different spots in the image.	P. 83
DIGITAL ZOOM	The maximum optical zoom (3x) can be extended even more by the 3.5x digital zoom, making possible up to approx. 10x zoom.	P. 74
FULLTIME AF	Keeps the image in focus at all times without having to press the shutter button halfway.	P. 61
AF MODE	Selects the auto focus method (iESP or SPOT).	P. 60

CAMERA tab		
s <b>t</b>	Lets you shoot from as close as 2 cm to your subject (super macro mode).	P. 90
PANORAMA	Allows panorama pictures to be taken with Olympus CAMEDIA-brand cards.	P. 96
2 IN 1	Combines two pictures taken in succession and stores them as a single picture.	P. 98
FUNCTION	Lets you shoot pictures in black & white or sepia tone.	P. 100
AF AREA	Lets you change the position of the AF target mark using the arrow pad.	P. 62
INFO	Changes the amount of shooting information displayed on the monitor.	P. 155
allib.	Displays a histogram showing the brightness and contrast of the subject in your monitor.	P. 157

PICTURE tab		
<b>%</b>	Sets the record mode resolution.	P. 102
WB	Sets the appropriate white balance according to the light source.	P. 109
WB½	Lets you make fine changes to the white balance manually.	P. 112
SHARPNESS	Adjusts the sharpness of images.	P. 113
CONTRAST	Adjusts the contrast of images.	P. 114
SATURATION	Adjusts the level of color depth without changing tint.	P. 115

CARD tab		
CARD SETUP	Formats cards.	P. 139

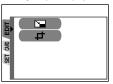
# Tabs & MODE MENU functions (shooting) (Cont.)

SETUP tab		
ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	P.143
G.□	Selects a language for on-screen display.	P. 30
PW ON SETUP	Sets the picture displayed on the monitor when the power is turned on.	P. 159
PW OFF SETUP	Sets the picture displayed on the monitor when the power is turned off.	P. 159
REC VIEW	Selects whether to display images while saving them to a card.	P. 158
=1))	Sets the beep sound (used for warnings. etc.) to OFF/LOW/HIGH.	P. 156
MY MODE SETUP	Customizes settings, which are activated in the m mode.	P. 151
FILE NAME	Chooses how to name files and folders of images to be saved.	P. 162
PIXEL MAPPING	Checks the CCD and image processing circuit for errors.	P. 164
归	Adjusts the brightness of the monitor.	P. 156
<b>0</b>	Sets the date and time.	P. 27
m/ft	Sets the measurement units (m/ft) used during manual focus.	P. 165
VIDEO OUT	Selects NTSC or PAL according to your TV's video signal type. TV video signal type differs depending on the region.	P. 166
SHORT CUT	Lets you assign frequently-used functions as shortcut menus on the top menu.	P. 148
CUSTOM BUTTON	Lets you assign a frequently used function to the camera's custom button.	P. 145

# Tabs & MODE MENU functions (playback)

When a still picture is played back, the MODE MENU has 3 tabs. When a movie is played back, the MODE MENU has 2 tabs. Press  $\Delta\nabla$  to select a tab and display the associated menu items. The EDIT tab is not available during movie playback.

#### During still picture playback







EDIT	tab	
_		

3-	Makes the file size smaller.	P. 132
4	Enlarges a part of a picture and saves it as a new picture.	P. 133

#### CARD tab

CARD SETUP	Formats cards (FORMAT), or erases all	P. 139
	images in the card (ALL ERASE).	

SETU	P I	tal	•
SEIU	Р 1	lai	י

00. tub		
ALL RESET	Selects whether to keep the current camera settings when you turn off the power.	P. 143
C.□	Selects a language for on-screen display.	P. 30
PW ON SETUR	Sets the picture displayed on the monitor when the power is turned on.	P. 159
PW OFF SETU	P Sets the picture displayed on the monitor when the power is turned off.	P. 159

SETUP tab		
SCREEN SETUP	Registers a stored picture so that you can select it in PW ON SETUP and/or PW OFF SETUP.	P. 160
<b>■1))</b>	Sets the beep sound (used for warnings. etc.) to OFF/LOW/HIGH.	P. 156
	Adjusts the brightness of the monitor.	P. 156
0	Sets the date and time.	P. 27
VIDEO OUT	Selects NTSC or PAL according to your TV's video signal type. TV video signal type differs depending on the region.	P. 166
88	Selects the number of frames in the index display.	P. 131

# Shooting mode setting — Mode dial

Set the mode dial to any of the following positions.

#### 

- Always remove the lens cap before turning on the camera since the lens automatically extends when the camera turns on.
- The monitor automatically turns on when the mode dial is set to A/S/M/ 🔊 or 🚝 .

## 🛮 🚂 mode setting

When the mode dial is set to  $\sharp \mathbb{H}$ , you can select any of the following shooting modes.

#### Shooting mode:

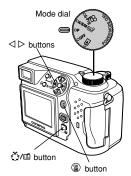
- (Movie record),
- (Self-Portrait shooting),
- (Night scene shooting).
- (Landscape+Scene shooting),
- (Landscape+Portrait shooting),
- (Sports shooting),
- (Portrait shooting, factory default setting).
- "Shooting modes" (P. 49)

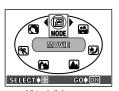


- 2 Press the 🎲/🗉 (custom) button to display the virtual dial screen.
- Press 
  □ Prese 
  □ Prepeatedly until the desired mode is displayed in the center of the screen. Press 

  □ Prese 

  □ Pre
  - The virtual dial screen disappears.





Virtual dial screen

# │A/S/M/ mode setting

When the mode dial is set to A/S/M/ 🖼 , you can select any of the following shooting modes.

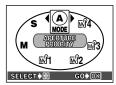
#### Shooting mode:

- **A** (Aperture priority shooting, factory default setting),
- S (Shutter priority shooting),
- M (Manual shooting),
- **™**2 (My Mode shooting 2),
- **™3** (My Mode shooting 3),
- M4 (My Mode shooting 4).
- "Shooting modes" (P. 49)



- Set the mode dial to A/S/M/ 🔊 .
- **2** Press the ∱/७ (custom) button to display the virtual dial screen.
- Press < > repeatedly until the desired mode is displayed in the center of the screen. Press 
  ⑥.
  - The virtual dial screen disappears.





Virtual dial screen

## Shooting modes

#### P Program shooting

Allows you to take still pictures. The camera sets aperture and shutter speed. Other functions, such as flash modes and drive modes, can be adjusted manually.

# A/S/M/™ Aperture priority/Shutter priority/Manual/My mode shooting

For details on which shooting modes are selectable when the mode dial is set to A/S/M/

? refer to the previous page.

#### • A Aperture priority shooting

Allows you to set the aperture manually. The camera sets the shutter speed automatically. By decreasing the aperture value (F-number), the camera will focus within a smaller range, producing a picture with a blurred background. Increasing the value forces the camera to focus over a wider range in the forward and backward directions, resulting in a picture in which both the subject and the background are in focus.

"Aperture setting" (P. 53)



Aperture (F-number) is decreased.



Aperture (F-number) is increased.

#### Shutter priority shooting

Allows you to set the shutter speed manually. The camera sets the aperture automatically. Set the shutter speed according to the subject and the type of effect you want.

Shutter speed setting" (P. 54)





Setting the shutter speed higher lets you. Setting the shutter speed lower blurs a capture fast-moving action without blur. The moving subject, giving the impression subject will be clear and sharp, as if it is not of movement, moving.

#### • M Manual shooting

Allows you to set the aperture and shutter speed manually. To check the exposure, refer to the exposure differential. This mode gives you more creative control, allowing you to make the settings you need to get the type of picture you want, regardless of optimum exposure.

"Aperture & shutter speed setting" (P. 55)

#### My? My Mode

Your favorite settings can be saved in MY MODE SETUP (in the menu's SETUP). Customized settings are activated when the power is turned on in the mode. Settings such as aperture value, zoom position, etc. can be customized. In the M mode, you can select exposure mode (shooting mode) from P. A. S. M or S-Prg. Settings can be specified with the camera's setting menus.

In MY MODE SETUP, you can create and save up to 4 different My Mode settings. Items in the short cut menu can be different from those in the P or S-Prg mode short cut menus.

"MY MODE SETUP" (P. 151)

### Movie record/Scene program shooting

For details on which shooting modes are selectable when the mode dial is set to  $\frac{8}{3}$ , refer to P. 47.

#### Movie record

Allows you to record movies. The camera sets the aperture and shutter speed automatically. Exposure is locked when the shutter button is pressed halfway. You cannot record movies with sound.

# Self-Portrait shooting

Enables you to take a picture of yourself while holding the camera. Point the lens towards you and take a shot. The focus is locked on you (shooter). The camera automatically selects the optimal settings for this type of shooting condition. Zooming is not possible.



# Night Scene shooting

Suitable for shooting pictures in the evening or at night. The camera sets a slower shutter speed than is used in normal shooting. For example, if you take a picture of a street at night in the P mode, the lack of brightness will result in a dark picture with only the sparkle of lights such as street lamps appearing. In the Night Scene shooting mode, the true appearance of the street can be captured. The camera automatically selects the optimal settings for this type of shooting condition. Since the shutter speed is slow, make sure you stabilize the camera by using a tripod.



# Landscape+Scene shooting

Suitable for taking pictures of landscapes and other outdoor landscape scenes. Both the foreground and the background are in focus. Since blues and greens are reproduced vividly in this mode, the Landscape-Scene mode is excellent for shooting natural scenery. The camera automatically sets the optimal shooting conditions.

## Landscape+Portrait shooting

Suitable for taking photos both your subject and the background. The picture is taken with the background as well as the subject in the foreground in focus. The camera automatically sets the optimal shooting conditions.

## Sports shooting

Suitable for capturing fast-moving action (such as sports) without blurring. The camera automatically sets the optimal shooting conditions.

# Portrait shooting

Suitable for shooting a portrait-style image of a person. This mode features an in-focus subject against a blurred background. The camera automatically sets the optimal shooting conditions.

## Aperture setting — Aperture priority shooting

Mode dial setting A/S/M/My

- Select A from "A/S/M/M" mode setting". See P. 48.
- To increase the aperture value (F-number), press  $\triangle$ .



To decrease the aperture value (F-number), press  $\nabla$ .

# ■ If the aperture value is displayed in red

The aperture you have set is unsuitable for the conditions.

- $\blacktriangledown$  appears.  $\to$  Press  $\triangledown$  to decrease the aperture value.
- $\blacktriangle$  appears.  $\to$  Press  $\triangle$  to increase the aperture value.

Aperture value range: f2.8-f11



#### Green:

The aperture setting will provide optimum exposure.



#### D - 4

The aperture setting is unsuitable for optimum exposure.



# 

 When the flash is set to the auto-flash mode, the shutter speed is fixed at 1/30 sec. in the maximum wide-angle, or 1/100 sec. in the maximum telephoto, and can never go slower.

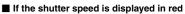
## Shutter speed setting — Shutter priority shooting

Mode dial setting A/S/M/My

- 1 Select S from "A/S/M/™ mode setting". See P. 48.
- **2** To set a faster shutter speed, press  $\triangle$ .



To set a slower shutter speed, press  $\nabla$ .

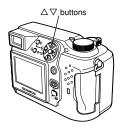


The shutter speed you have set is unsuitable for the conditions.

 $\blacktriangledown$  appears.  $\rightarrow$  Press  $\nabla$  to set the shutter speed slower.

 $\blacktriangle$  appears.  $\to$  Press  $\triangle$  to set the shutter speed faster.

Shutter speed range: 4 to 1/1000 sec.





## Aperture & Shutter speed setting — Manual shooting

Mode dial setting A/S/M/My

1 Select M from "A/S/M/™ mode setting". See P. 48.

**2** To increase the aperture value (F-number), press <1.

To set a faster shutter speed, press Δ.

To set a slower shutter speed, press ∇.

To decrease the aperture value (F-number), press >.

F-number: f2.8 - f11

Shutter speed: 8 to 1/1000 sec.



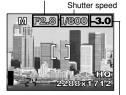
Aperture (F-number)



#### Exposure differential

- The difference (ranging from -3.0 to +3.0) between the exposure determined by the currently selected aperture and shutter speed compared to the exposure level considered optimal by the camera appears in the upper right-hand corner.
- When the exposure differential is set to less than −3.0 or more than +3.0, the exposure differential appears in red.
- When you press the ♣/b button, the screen at right appears with the bar indicating current exposure settings. Pressing the shutter button halfway shows how much the current exposure is different from the correct exposure. (Only when the ♣/b button is set to AE LOCK.)

#### Aperture (F-number)



Exposure differential



When the bar is displayed

## ···· • Note ··

 To avoid camera movement, we recommend use of a tripod for any effect which uses a slow shutter speed.

### **Using My Mode**

When using My Mode, the shooting mode you selected with the menus in the mode is activated. You can also save the shooting mode or function settings you are currently using in the mode. If you set the mode dial to again, the camera will activate these stored settings. In MY MODE SETUP, you can create and save up to 4 different My Mode settings. The MY MODE SETUP" (P. 151)



Follow steps 1 through 3 in "A/S/M/\omdote mode setting" (P. 48). In step 3 select \omdote 1. \omega 2. \omega 3 or \omega 4.

# · • Note ······

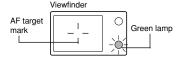
 Although the settings you are using can be saved, the zoom position you are currently using will not be saved.

# How to use the shutter button

Point the camera towards the subject. Place the AF target mark on the subject while viewing through the viewfinder.

Press the shutter button gently (halfway).

 When the focus and brightness (exposure) are locked, the green lamp next to the viewfinder lights steadily.



- 2 Press the shutter button all the way.
  - Shooting starts and the green lamp blinks.
  - P, A/S/M/™, ₩, ₩, ₩, ™, ™ or mode: The camera starts storing your pictures on the card. While pictures are being stored, the card access lamp blinks.
  - mode: The camera starts recording a movie and the orange lamp lights.
- 3 ONLY for the (movie record) mode: To stop recording, press the shutter button all the way again.
  - The card access lamp blinks and the camera starts storing the movie on the card. You cannot record another movie until the card access lamp stops blinking.





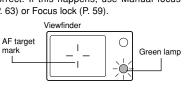


# **Focusing**

#### **Auto focus**

When you place the AF target mark on a subject and press the shutter button halfway, the green lamp lights up. This means that focusing is being performed automatically. If the green lamp blinks, focusing is not

If the green lamp blinks, focusing is not correct. If this happens, use Manual focus (P. 63) or Focus lock (P. 59).





# When Auto focus does not work — Subjects that are difficult to focus on

Under certain types of conditions auto focus may not work properly. If you run into problems, try the procedure below.

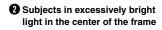
Conditions 1, 2 and 5

Auto focus may not work properly. The green lamp may blink.

Conditions 3 and 4

Auto focus may not work properly even when the green lamp lights when you press the shutter button down halfway.

Subjects with low contrast







3 Subjects at different distances



Past-moving subjects



Position the AF target mark in the viewfinder on an object that is the same distance from the camera as the subject, then half-press the shutter button to lock focus, while keeping your finger half-pressed on the shutter button, frame the picture you want to shoot, and then fully press the shutter button (P. 59).

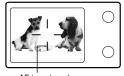
### **5** Subjects with no vertical lines



Hold the camera vertically, half-press the shutter button and hold it down to lock the focus. Re-position the camera horizontally, compose the picture and then fully press the shutter button to take the picture (P. 59).

# Focus lock — Focusing on subjects that are not in the center of the frame

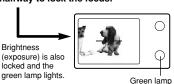
If the subject of your composition is not within the AF target mark and focusing is not possible (as illustrated to the right), try the following:



AF target mark



Position the AF target mark over the subject. Press the shutter button halfway to lock the focus.





2 Compose your picture (point the camera towards the subject) while keeping the shutter button pressed halfway.



? Press the shutter button all the way.





- The green lamp blinks.
  - → Focus and exposure are not locked. Release your finger from the shutter button and position your subject again. Repeat step 1 until the green lamp lights up without blinking.
- The frame in which you focus on a subject is different from the frame in which you meter the light.
  - → Use AE lock (P. 86).

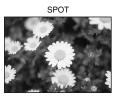
#### AF MODE — Changing the focus range

Allows you to select the focus range of your subject.

iESP: Focus selection is based on the entire picture on the screen. Even when the subject is not in the center of the screen, focusing is possible.

**SPOT**: Focus selection is based on the picture within the AF target mark.





Mode dial setting P A/S/M/My s-Prg

In the top menu, select MODE MENU → CAMERA → AF MODE → iESP or SPOT. Press ③. Press again to cancel the menu.

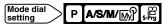
□ "How to use the menu" (P. 39)

Factory default setting: iESP



## FULLTIME AF — A reliable time-saving way to focus

FULLTIME AF keeps the image on the monitor in focus at all times, without having to press the shutter button halfway. This function reduces focusing time. When OFF is selected, images cannot be focused unless the shutter button is pressed halfway.



- In the top menu, select MODE MENU

  → CAMERA → FULLTIME AF → ON.

  Press ③ . Press again to cancel the menu. ☑ "How to use the menu"

  (P. 39)
- 2 Press the ((monitor) button to turn on the monitor.
  - If the monitor is not on, Fulltime AF does not function.

Factory default setting: OFF

•••••• •• Note ••

- FULLTIME AF is not available in the 🗃 mode. However, the Fulltime AF function is always on.
- Battery life is shorter when Fulltime AF is used.

#### **AF AREA**

#### - Changing the position of the AF target mark

Allows you to select the area you want to focus on by changing the position of the AF target mark.



- In the top menu, select MODE MENU → CAMERA → AF AREA. Press ▷. ☐ "How to use the menu" (P. 39)
  - AF target mark position select screen appears.



- 2 Press the arrow pad to move the AF target mark to the area you want to focus on.
  - You can move the AF target mark vertically and horizontally from the screen's center



- 3 Shoot.
  - To restore the AF target mark to the default position, press (a). The AF target mark is placed at the screen's center.



## Note

• AF AREA is not available in the 🖾 mode.

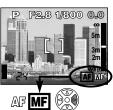
#### Manual focus

If Auto focus is unable to lock, use manual focus.



Hold down <sup>®</sup> for more than 1 second. When the focus distance selection screen appears on the monitor, press ▷ to select MF.





- **2** Press  $\triangle \nabla$  to select the focus distance.
  - During operation, you can enlarge the area you are focusing on. This lets check the image area that the camera actually records. The lengths shown are for reference only. When the length indicator is moved to less than 0.8 m (2.6 ft), the bar display automatically switches to the 20 cm (7.8") – 80 cm (31") bar display.



- **3** Hold down **(a)** for more than 1 second to save the setting.
  - MF appears in red.



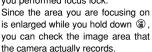
- ⚠ Shoot.
  - Focus is locked at the distance you have set.
- 5 To cancel the saved MF setting, hold down (a) again for more than 1 second to display the focus distance selection screen.
- **6** To return to the AF mode, press  $\triangleleft$  to select AF, then press  $\circledast$ .





#### How to shoot while keeping the same focus distance at all times

- $\rightarrow$  The MF can be locked at the same length as when you perform focus lock.
  - Focus on anything within the AF target mark. Press the shutter button halfway to lock focus.
  - Without letting go of the shutter button, hold down . The focus distance screen appears. On the screen, MF is selected and the focus distance is the same as when you performed focus lock.





- $\bullet$  Although MF is selected and the length indicator reaches the top of the bar, focusing is not possible at  $\infty.$ 
  - $\rightarrow$  Adjust by moving  $\triangle \nabla$  slightly while watching the monitor.
- Although the focus distance is saved, the picture goes out of focus.
  - →If the zoom lever is pressed after manual focus setting, the saved focus distance may be changed. Try setting again.

# Note …

• Manual focus is not available in the 🗃 mode.

# Taking still pictures PASW顾哭世本情慨氛

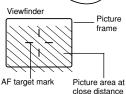
### Taking still pictures while using the viewfinder

The camera actually records a wider area than the picture you composed while viewing through the viewfinder.

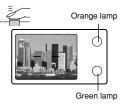


- Point the camera towards a subject while viewing through the viewfinder. Place the subject on the AF target mark.
  - The picture area moves lower in the viewfinder as you get closer to the subject.
     If this happens, use the monitor (P. 68).





- **2** Press the shutter button halfway.
  - When focus and exposure (brightness) are locked, the green lamp lights.
  - If the orange lamp lights, the flash fires automatically.
    - Flash shooting" (P. 75).



#### ? Press the shutter button all the way.

- The green lamp next to the viewfinder blinks. When the green lamp stops blinking, you can take another shot.
- The card access lamp blinks while pictures are being stored on the card.
- Number of still pictures that can be stored on a 16 MB card →

HQ record mode (2288 x 1712):

Approx. 16

SQ2 record mode (640 x 480

NORMAL): Approx. 165





#### How to shoot using the monitor

- → Press the (monitor) button (P. 69). The monitor turns on.
- The green lamp blinks.
  - → Depending on the subject, focus and exposure (brightness) may not be locked (P. 58).
- How to automatically check the picture you have just taken
  - → Set REC VIEW to ON. The picture can be displayed on the monitor (P. 158).

## ····· • Note ·····

- Press the shutter button gently using the ball of your finger. If it is pressed hard, the camera may move and pictures may come out blurred.
- Recorded pictures will be saved in the card regardless of whether the camera is turned off or the batteries are replaced or removed.
- Never open the card cover, eject the card, remove the batteries, or pull the plug when the card access lamp is blinking. Doing so could destroy stored pictures and prevent storage of pictures you have just taken.

## Taking still pictures while using the monitor

With the monitor, you can shoot while checking the picture area that the camera actually records. It is also possible to check information such as memory gauge, aperture or shutter speed, etc.

#### - Comparison of the viewfinder & monitor

#### Viewfinder

#### Advantage:

Camera movement does not occur easily and subjects can be seen clearly even in bright places. Little battery power is used.

#### Disadvantage:

When close to a subject, the image in the viewfinder is a little different from the picture that the camera actually records.

#### Tips:

Use the viewfinder for general snapshots (landscape pictures, casual shots, etc.) or when taking several pictures in a row.

#### Viewfinder



Striped area: Picture that the camera actually records.

#### Advantage:

You can check the picture area that the camera actually records.

Monitor

#### Disadvantage:

Camera movement can occur easily and subjects may be difficult to see in bright/dark places. The monitor uses more battery power than the viewfinder.

#### Tips:

Use the monitor when you need to know the exact area the camera records, or to shoot a subject 80 cm (2.6 ft) or closer (macro shooting).

- The camera records a wider area than the image in the viewfinder.
- As you get closer to the subject, the actual image recorded becomes lower than the one in the viewfinder (see left).



- Press the (monitor) button to turn on the monitor.
  - In the A/S/M/™ or ♣ mode, the monitor turns on automatically.



Point the camera towards a subject while viewing with the monitor. Place the subject on the AF target mark.



Number of AF target mark storable pictures

- ? Press the shutter button halfway.
  - When focus and exposure (brightness) are locked, the green lamp lights.
  - If the orange lamp lights, the flash fires automatically. 3 "Flash shooting" (P. 75)







 The bottom of the memory gauge lights, the card access lamp blinks, and the camera begins storing pictures on the card.



2288×1





- The monitor does not turn on.
  - → If the camera is not used for over 3 minutes, the monitor turns off. If you operate the shutter button or zoom lever, the monitor turns on again.
- Vertical lines on the monitor screen make it hard to see the image.
  - → Bright light (such as direct sunlight) may cause vertical lines to appear on the monitor screen. In this case, use the viewfinder.
- How to brighten/darken the monitor
   → Adjust the brightness in □ (P. 156).
- How to check the area the camera is focusing on
  - → If you hold down the (monitor) button while pressing the shutter button halfway, the area you are focusing on is enlarged (as illustrated). When using the digital zoom, this is not available.



- Camera movement is less noticeable when using the viewfinder rather than the monitor.
- Also read the "TIPS" on "Taking still pictures while using the viewfinder" (P. 67).

# Note ⋅

- The monitor consumes more battery power than the viewfinder.
- If you point the lens towards a bright subject, smear (lines like beams of light) may appear on the monitor image. This does not affect recorded images.

# **Recording movies**



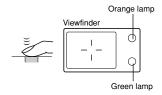


- Point the camera towards a subject, and place the subject on the AF target.
  - The monitor turns on automatically.
  - In the mode, the total recording time is shown. Total recording time depends on the memory capacity of the card.





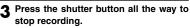
- Press the shutter button all the way to start recording.
  - The number of seconds remaining appear.
  - The orange lamp lights up.
  - During movie recording, 🗃 lights in red.





Seconds remaining\*

\* The displayed seconds remaining shows the time you can shoot after pressing the shutter button.





- The card access lamp blinks and the camera begins storing the movie on the card.
- When the card access lamp stops blinking, the camera has finished writing the movie to the card. If there is any space left on the card, the number of seconds remaining is displayed. You can start shooting another movie.
- When the remaining time displayed has been used up, shooting stops automatically and the camera starts writing the movie to the card. This will happen regardless of whether or not you press the shutter button to stop shooting.



## Shooting is not possible.

- →You cannot record another movie as long as the card access lamp is blinking.
- → Shooting is not possible while the camera is saving pictures to the card. When the memory gauge goes off, you can take another shot.

## Note •

• During movie recording, the flash cannot be used.

# Zoom — Telephoto/Wide-angle shooting

Telephoto/Wide-angle shooting is possible at up to 3x magnification (optical zoom limit, equivalent to 32 mm - 96 mm on a 35 mm camera). By combining the digital zoom with the 3x optical zoom, zoom magnification can be extended to a maximum of approx. 10x (during still picture shooting).

# Shoot a wider view picture (wide-angle)

Press the zoom lever toward W to zoom out.



Zoom lever



# Zoom in on a subject (telephoto)

Press the zoom lever toward T to zoom in.

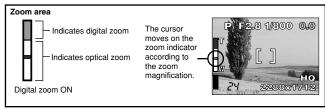


## Digital zoom



- In the top menu, select MODE MENU → CAMERA → DIGITAL ZOOM → ON. Press ⑥. Press again to cancel the menu.
  - F "How to use the menu" (P. 39)
- 2 Press the zoom lever towards T.
  - The zoom bar appears.





## Factory default setting: OFF



- Zooming is not possible in the 🔛 mode.
- •If \$\mathbb{s}\$ is set to ON, zooming is not possible.
- In the mode, digital zoom magnification is 2.5x.
- Images captured with the digital zoom may appear grainy.
- Camera movement is likely to happen at higher magnifications. Stabilize the camera with a tripod, etc. to avoid camera movement.

# Flash shooting

You can select a flash mode appropriate to the lightning conditions and the effect you want to achieve. You can also adjust the amount of light emitted using the flash intensity control (P. 81).

The flash modes are as follows:

## Auto-flash

Automatically fires in low-light and backlight conditions.

## Red-eye reduction flash ③

This mode significantly reduces the phenomenon of "red-eye" by emitting about 10 pre-flashes before firing the regular flash. This mode works the same as the auto-flash except for the pre-flashes.



The subject's eyes appear red.

## Note ·····

- After the pre-flash, it takes about 1 second before the shutter is released, so do not move the camera and hold it firmly after the pre-flash.
- Effectiveness may be limited if the subject is not looking directly at the preflashes, or if the shooting range is too far. Individual physical characteristics may also limit effectiveness.

## Fill-in flash 4

The flash fires regardless of available light. This mode is useful for eliminating shadows on the subject's face or for correcting the color shift produced by artificial lighting (especially fluorescent light).



## ······ • Note ··

• Fill-in flash may not have the desired effect under excessively bright light.

## Flash off 🧐

The flash does not fire even in low-light conditions. Use this mode in situations where flash photography is not desired or is prohibited, or when you want to shoot a natural-looking twilight or night scene.

## ..... • Note .....

Since a slow shutter speed is automatically selected in low-light situations
when in the flash off mode, the use of a tripod is recommended to prevent
your pictures from being blurred by camera movement.

## Slow synchronization \$ SLOW1 \$ SLOW2 @ \$ SLOW

The Slow Synchronization flash is designed for slow shutter speeds. Normally, when shooting with a flash, shutter speeds cannot go below a certain level to prevent camera movement. But when shooting a night scene background, fast shutter speeds can make the background too dark. Slow Synchronization flash allows both a slow shutter speed for the background and a flash for the subject. Since the shutter speed is slow, make sure you stabilize the camera by using a tripod. Otherwise, camera movement may cause the image to be blurred.

Shutter speed: 4 to 1/1000 sec.



# SLOW1 (factory default setting):

## 1st curtain (front curtain)

Usually, regardless of the shutter speed, the flash fires right after the shutter fully opens.

### ■ \$ SLOW2:

### 2nd curtain (rear curtain)

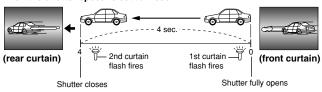
In contrast to 1st curtain, 2nd curtain fires the flash just before the shutter closes. Changing the flash timing can create interesting effects in your picture, such as expressing the movement of a car by showing the taillights streaming backwards. The slower the shutter speed, the better the effects turn out.

Slowest possible shutter speed depends on the shooting mode:

M mode : 16 sec.

P/A/S mode : 4 sec. (depending on the ISO setting.)

### When the shutter speed is set to 4 sec.



### ■ @ 4 SLOW:

### 1st curtain with red-eve reduction

This is for when you want to use Slow Synchronization yet also reduce redeye. For instance, when shooting a person against a brightly lit night background. A normal flash might make the person's eyes red, but 1st curtain with red-eye reduction lets you capture the background correctly and reduce red-eye at the same time.

2nd curtain with red-eye reduction is not available.

## Using the slow synchronization flash \$ SLOW

Use the menu to select one of the 3 Slow synchronization flash modes (P. 76).

Mode dial setting P A/S/M/My S-Prg

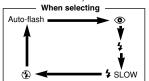
In the top menu, select MODE MENU → CAMERA → \$ SLOW → \$ SLOW1, \$ SLOW2 or ⑤ \$ SLOW. Press ⑥. Press again to cancel the menu. ☐ "How to use the menu" (P. 39)



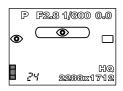
## Using the flash



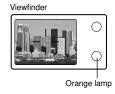
- Press the 4 (flash mode) button repeatedly until the desired flash mode indication appears.
  - The monitor turns on automatically.
  - The flash mode changes as follows (if all modes are available):



 If \$\frac{1}{2}\$ is not pressed within 2 seconds after the selection screen is displayed, the selection screen disappears.



- 2 Press the shutter button halfway.
  - When the flash is ready to fire, the orange lamp lights.



3 Press the shutter button all the way.

The flash fires

### Flash working range

W (max.): Approx. 0.8 m - 3.6 m (2.6 ft - 11.8 ft) T (max.): Approx. 0.2 m - 3.6 m (0.6 ft - 11.8 ft)

Mode	Р	A/S/M/ 📾			A/S/M/ 🖼			s-Pr	9
Flash	'	Α	S	М	<b>™</b> } *	<b>2</b>	S-Prg		
Auto-flash		/	√		/	-			
•	<b>√</b>	√	√		√	-	<b>√</b>		
4	<b>√</b>	√	-		√	-	/		
\$ SLOW1	<b>√</b>	√	<b>√</b>		√	-	/		
\$ SLOW2	/	√	√		√	-	/		
<b>◎ \$</b> SLOW	<b>√</b>	<b>√</b>	-		√	-	√		
3	<b>√</b>	√	V	r	<b>√</b>		√		

<sup>√:</sup> Available, – : Not available : Factory default setting

<sup>\*</sup> The factory default setting and the available settings differ depending on which shooting mode is selected. See the P, A, S, M or S-Prg column.



### The flash does not fire.

→ Flash does not fire in the following situations:

When shooting a bright subject, in the movie record mode, in the mode (P. 90), during sequential shooting ( $\square$ \*, AF $\square$ \*, BKT) (P. 92), when FUNCTION is set to WHITE BOARD/BLACK BOARD (P. 100), during Panorama shooting (P. 96).

\*Red-eye reduction flash and 1st curtain with red-eye reduction flash are not available.

### • The orange lamp or the \$ (flash stand-by) mark blinks.

→The flash is charging. Remove your finger from the shutter button. When the mark stops blinking, press it again.

### Camera movement warning (auto, red-eye reduction, fill-in)

When the orange lamp or \$\( \) (camera shake warning) lights, the shutter speed locks at its current level. This helps prevent camera movement problems (shutter speeds that are too slow can cause blur). However, if the zoom magnification is increased, the camera will increase the locked shutter speed accordingly.

### Zoom position & shutter speed

W (max.): 1/30 sec., T (max.): 1/100 sec.



- The flash may not give you the optimum result in macro mode, especially with wide-angle shooting. Check the image on the monitor.
- If a conversion lens is attached to the camera, the flash is disabled.

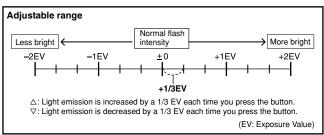
## Flash intensity control 💯

You can adjust the amount of light emitted by the flash.

In some situations, you may get better results by adjusting light emission. Examples include small subjects, distant backgrounds, or situations when increased contrast is desired.







## Factory default setting: ±0

Note .....

 The flash adjustment effect may not be sufficient if the shutter speed is too fast.

## Metering modes — Metering the subject brightness

There are 3 metering methods: Digital ESP metering, spot metering and multi-metering.

**Digital ESP metering:** Meters the center of the frame and the area around it separately to determine the optimal exposure.

**Spot metering:** See below. **Multi-metering:** See P. 83.

## Spot metering — Selecting the metering area •

Exposure is determined by metering within the AF target mark. In this mode, a subject can be shot with optimal exposure regardless of the background light. In the working range of the macro mode, spot metering is also available (spot metering+macro mode).



- - The monitor turns on automatically.
  - The indications change as follows (if all modes are available):



- "Macro mode" (P. 89)
- If \( \frac{\psi}{\psi} \rightarrow \) is not pressed within 2 seconds after the selection screen is displayed, the selection screen disappears.

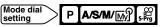


7 Take a picture.

Factory default setting: Digital ESP

# Multi-metering — Metering the exposure of more than one point in the frame

Meters the brightness of the subject at up to 8 different points to set the optimal exposure based on the average brightness. Useful with high-contrast subjects. In the M or mode, multi-metering is not available.



- Setting multi-metering
- Set AE lock to the <sup>♠</sup>/<sup>™</sup>/<sup>™</sup> button.

  □ "Setting the custom button"
  (P. 146).
- Press \( \sigma / \cdot \) to engage the spot metering mode (P. 82).
- 3 In the top menu, select MODE MENU → CAMERA → MULTI METERING → ON. Press ③ . Press again to cancel the menu. ☐ "How to use the menu" (P. 39)



### ■ Using multi-metering

- Point the AF target mark where you want to meter the exposure. Press the ☼/ங button. The subject's brightness can be metered at up to 8 different points.
  - A metering bar appears on the monitor.
  - Brightness meter readings are ignored after the 9th reading.
  - To cancel the locked multi-metering exposure, hold down ☼/ம over 1 second to display MEMO. Press it again and release it quickly.



## 7 Take a picture.

## e.g.: When metering 2 points (pressing 🍎/ii twice).

The average values for the aperture and shutter speed as calculated by metering 2 points. These values are recalculated every time another metering point is added.

■ indicates the average for the 2 metering points. The average is always shown at the center of the bar.



The reading with 🎾 pressed. ♦ indicates the number of times you have pressed the button ♦ indicates the difference between the metered and average readings.

▼ indicates how much the present exposure you are metering is different from the average exposure value. The present exposure can be fixed by pressing the shutter button halfway down. (The present exposure is not added to the average value unless you press 允/// )

When  $\blacklozenge$  moves ±3 far from the center of the bar (the average reading), the red  $\lhd \triangleright$  appears.

### Modes & Multi-metering

P		A/S/I	<b>W/</b> ₪		s.Prg		
•	Α	S	М	M	<b>2</b>	S-Prg	
<b>√</b>	√		-	√	-	√	

√ : Available, − : Not available



- If multi-metering is not engaged
  - →In the Digital ESP mode, multi-metering is not available. Set the metering mode to spot metering or spot metering + macro mode
    ■ 
    ■ 
    ■
- How to save the locked multi-metering exposure after shooting (AE memory)
  - → After pressing ①/I as many times as required in step 1 of "Using multi-metering", hold it down for more than 1 second. MEMO appears. When MEMO appears, the locked exposure is memorized.

## Note ••

- If any of the following buttons are pressed during multi-metering, multimetering exposure is canceled.
  - f(lash mode) button, mode dial, (macro/spot) button, (a).

# AE lock — Locking the exposure



Suitable for situations when optimal exposure is difficult to achieve (such as excessive contrast between the subject and the surroundings). For example, if nearly the whole frame is taken up with sky, shooting with automatic exposure will result in a dark subject. In this case, first frame an image without any sky. Then, press the compose your shot again with the sky in the frame and shoot. In other words, use AE lock when you want an exposure setting that's different from the setting that would normally apply to the image you want to shoot.



Mode dial setting



- Setting AE lock
- Set AE lock to the 🍎 / 🖆 button.
  - Set MULTI METERING to OFF (P. 83). If set to ON, AE lock is not available.



### ■ Using AE lock

In the M or mode, multi-metering is not available

- 1 Compose the picture where you want to lock the metered value (exposure), then press the ☼/ங button.
  - The monitor turns on automatically.
  - To cancel AE lock, press the ☼/酉 button again and release it quickly. If you want to lock a different exposure, re-compose the picture and press the button again. Each time you press the button, lock and cancel are repeated.
- 2 Place the subject you want to focus on within the AF target mark, then press the shutter button halfway.
  - The green lamp lights.
  - AE lock cannot be canceled while the shutter button is pressed halfway.



### Green lamp



During AE lock, AEL is displayed.

- ? Press the Shutter button all the way.
  - After shooting, AE lock is canceled and AEL disappears.

### Modes & AE lock

Þ		A/S/I	s.Prg			
'	Α	S	М	M	<b>2</b>	S-Prg
<b>/</b>	√ ·		-	(except M)	-	√

√ : Available, 
— : Not available



- How to save the locked Multi-metering exposure after shooting (AE memory)
  - → After step 1 or 2 of "Using AE lock", hold down 🌣 for more than 1 second. [MEMO] appears. When [MEMO] appears, the locked exposure is memorized. To cancel AE memory, press the 🏮 for more than 1 second. To cancel AE memory, press the formula for memory it quickly.

### • AE lock is not available

- → A menu is on the screen. Quit the menu (P. 39).
- → The multi-metering is on. Turn it off (P. 83).

### AE lock has been canceled

- → You turned the mode dial to change the camera's mode.
- →The camera's power was turned off or the camera entered sleep mode.
- → The spot metering/macro mode, drive mode or flash mode is changed.
- → You pressed (a) to display the menu.

# Macro mode shooting — Taking close-up pictures



Focusing is usually slow when you get close to a subject. However, in the ₩ mode focusing is performed quickly. The ₩ (macro) mode allows you to shoot close to the subject (within 20 cm − 80 cm (0.6 ft − 2.6 ft)). When the zoom lever is pressed to the maximum W position, you can fill the entire frame with your subject.

If the center of the frame (within the AF target mark) is metered when you are close to the subject and you shoot with the optimal exposure, the picture will turn out well (Spot metering+ Macro mode). L\$\overline{\sigma}\$" Spot metering" (P. 82).

If you are close to a subject, the picture area in the viewfinder is different from the picture that the camera actually records. For macro mode shooting, we recommend using the monitor (P. 68).

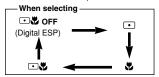


With the macro mode



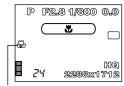


- Press the ♥/□ button repeatedly until ♥ (macro mode) or □♥ (spot metering+macro mode) appears.
  - The monitor turns on automatically.
  - The indications change as follows (if all modes are available):



 If \( \bigcup / \colon \) is not pressed within 2 seconds after the selection screen is displayed, the selection screen disappears.





Macro mark

## 7 Take a picture.

### Working range

Normal : 80 cm to  $\infty$  (2.6 ft to  $\infty$ ) Macro : 20 cm to 80 cm (0.6 ft to 2.6 ft)

Factory default setting: Digital ESP

# Super macro mode



When **w** is activated, you can shoot from as close as 2 cm to your subject. In the **w** mode, normal shooting is also possible.

Mode dial setting P A/S/M/My S-Prg

- In the top menu, select MODE MENU

  → CAMERA → 🗗 . Press ▷.
  - F "How to use the menu" (P. 39)
  - The Source screen appears.
- $\begin{tabular}{ll} \bf 2 & {\tt Press} \ \triangle \ \nabla \ \mbox{to select ON, then press} \ \ @\ . \\ {\tt Press} & {\tt again to cancel the menu.} \end{tabular}$
- 3 Take a picture.
  - In the super macro mode, the monitor turns on automatically.

Factory default setting: OFF







 During super macro shooting, the main flash is disabled. You can shoot using an external flash. If an external flash is used, vignetting (P. 207) may occur. Check the recorded image on the monitor.

# **Self-timer shooting**

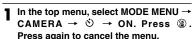


This function is useful for taking pictures where you want to be included in the photograph. Use a tripod to stabilize the camera.

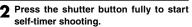
Mode dial setting

A/S/M/M





- F "How to use the menu" (P. 39)
- When 🕹 is displayed on the top menu. press  $\triangle$ ,  $\triangleleft$  or  $\nabla$  according to the arrow shown next to 🐧 . This allows you to set 3 directly instead of via MODE MENU.



- The self-timer lamp lights up for approximately 10 seconds, then starts blinking. After blinking for approximately 2 seconds, the picture is taken. (In the mode, recording starts.)
- To stop the self-timer, press 3 . The selftimer stops and the self-timer lamp will turn off.
- To stop shooting while in the 
  mode. press the shutter button fully again.







- The self-timer mode is not saved after the power is turned off even if All Reset is set to OFF (P. 143).
- The self-timer mode is canceled automatically when shooting is finished.
- In the mode, the camera automatically stops shooting when it goes over the maximum recording time.
- If the self-timer shooting is attempted when the still picture shooting mode (P, A/S/M/™), ₩, ₩, ₩, M, M) is set to sequential shooting, the camera shoots 5 frames automatically.

# **Sequential shooting**

There are 3 sequential shooting modes: sequential shooting  $\ \square$  , AF sequential shooting  $\ AF$  and auto bracketing BKT.

Sequential shooting modes can be selected from the DRIVE mode menu.

#### Drive mode

- Shoots 1 frame at a time when the shutter button is pressed all the way. (Single-frame shooting: normal shooting)
  - Shoots pictures sequentially. Focus, exposure and white balance are locked at the first frame. (Sequential shooting: See below.)
- AF : Shoots pictures sequentially. Focus is locked for each frame automatically. The AF sequential shooting speed is lower than normal sequential shooting. (AF sequential shooting: See below.)
- BKT : Auto bracketing (P. 93)

## Sequential shooting & AF sequential shooting 🖵 🗚

# Mode dial setting P A/S/M/My s.Frg

In the top menu, select MODE MENU → CAMERA → DRIVE → □ or AF□. Press ⑥. Press again to cancel the menu. □ "How to use the menu" (P. 39)

## Take pictures.

- Press the shutter button all the way and keep it pressed. The camera will take pictures in sequence until you release the button.
- Sequential shooting speed (HQ mode): approximately 1.5 frames/sec., number of pictures: 8 max.

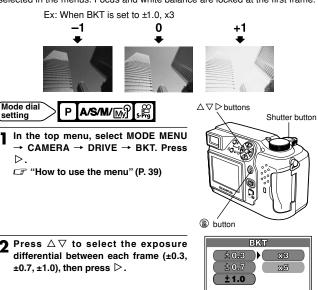


# ♠ Note

Also read the "Note" (P. 95) and "Modes & Drive mode" (P. 94).

### Auto bracketing — Shooting pictures sequentially with a different exposure for each frame BKT

Under some conditions, you may obtain better results shooting with exposure compensation than by using the exposure setting considered optimal by the camera. When auto bracketing is set, exposure is changed automatically for each frame when you start shooting. The exposure differential can be selected in the menus. Focus and white balance are locked at the first frame.



setting

D.

CANCEL → SELECT → GO → OK

- **3** Press  $\triangle \nabla$  to select the number of frames to shoot (x3, x5), then press **3**.
  - In some combinations of picture size and record mode, only x3 is available.



- ▲ Take pictures.
  - Press the shutter button all the way and keep it pressed to shoot the preset number of pictures. You can stop shooting at any time by releasing the shutter button.

#### Modes & Drive mode

Mode	Р	A/S/M/				S-Prg		
Drive mode		Α	S	М	₩ <sup>9</sup> *	2	S-Prg	
	/	/		/		-		
	<b>√</b>	√		√	<b>√</b>	-	√	
AF🔲	<b>√</b>	√		√	√	-	√	
вкт	<b>√</b>	v	√		<b>√</b>	-	<b>√</b>	

 $<sup>\</sup>checkmark$ : Available, – : Not available  $\ \ \ \ \ \$  : Factory default setting

<sup>\*</sup> The available settings differ depending on which shooting mode is selected. See the P, A, S, M or S-Prg column.

**⊘**Note ••

- In the following situations, sequential shooting (☐, AF☐, BKT) is not possible:
  - When the record mode is set to TIFF (P. 102) or when the SHQ record mode is set to ENLARGE SIZE (P. 106).
  - When NOISE REDUCTION is set to ON (P. 116).
- ullet During sequential shooting (ullet, AFullet, BKT), the main flash does not fire.
- If there is not enough space available on the card for the number of frames you have set during auto bracketing, you cannot continue shooting.
- If self-timer shooting is attempted when the still picture shooting mode (P, A/S/M/™), ₩, ₩, №, №, №, №) is set to sequential shooting, the camera shoots 5 frames automatically.
- If the ISO is set to over 200, noise may appear under some shooting conditions (P. 107).
- If the battery power is low and the battery check blinks during sequential shooting, shooting stops and the camera starts saving the pictures you have taken. Whether or not all of the shots are saved depends on how much battery power remains.
- Since the shutter speed is set to 1/30 sec. max., exposure is decreased when shooting a dark subject to prevent camera movement.
- To use the external flash during sequential shooting, set the external flash so that it fires for each frame

# **Panorama shooting**

You can take advantage of panorama shooting with both Olympus CAMEDIA-brand cards and CAMEDIA Master software. (Non-Olympus cards do not support this feature.)

Panorama shooting lets you connect images with overlapping edges into a single panoramic image, using the provided CAMEDIA Master software.

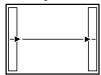
Mode dial setting P A/S/M/My s-Prg

- In the top menu, select MODE MENU

  → CAMERA → PANORAMA.
- F "How to use the menu" (P. 39)
- **2** Press ▷.
   The PANORAMA mode is set.
- 3 Press the arrow pad to choose at which edge (top/bottom/right/left) you want to connect images.
  - The direction is displayed.



Connects a series of pictures from left to right.



Connects a series of pictures from bottom to top.



# 4 Make sure that the edges of images overlap, then take your pictures.

- Focus, exposure and white balance are set by the first picture. Do not select an extremely bright subject (such as the sun) for the first picture.
- You cannot adjust the zoom after the first picture.
- Panorama shooting is possible for up to 10 pictures.



When shooting, be sure to have the edges (right/left/top/bottom) of images overlap, so you will know which pictures should be connected.

## 5 Press ® to finish panorama shooting.

 Frames on the edges of the screen disappear, and the camera returns to the normal shooting mode.

## Modes & Panorama shooting

Р		A/S/I	s-Fing			
'	Α	S	М	<u>₩</u> } *	<b>2</b>	S-Prg
√		-		√	-	Not available in

<sup>/:</sup> Available, -: Not available

<sup>\*</sup> Availability of the Panorama shooting depends on which shooting mode is selected. See the P, A, S, M or S-Prg column.

## Note ⋅

- During panorama shooting, the flash is disabled.
- If you take 10 pictures, a warning screen appears and no more pictures can be taken.



- The panorama mode is only available with the OLYMPUS CAMEDIA-brand SmartMedia cards.
- The camera itself cannot connect panorama pictures. To connect each picture, the CAMEDIA Master software is necessary.
- Your computer's memory may be insufficient if you take too many panorama pictures in the HQ/SHQ modes.
- Images are saved in JPEG format when panorama shooting is done in the TIFF mode. The size of the image does not change.
- If the mode dial is moved during panorama shooting, the camera cancels the panorama mode and returns to normal shooting.

## Taking two-in-one pictures

2 IN 1

Allows you to combine two pictures taken in succession and store them as a single picture.



In the top menu, select MODE MENU

→ CAMERA → 2 IN 1.

F "How to use the menu" (P. 39)

**?** Press  $\triangleright$ .

The two-in-one picture mode is set.



- Take the first shot.
  - The subject will be on the left in the combined image.



- ▲ Take the second shot in succession.
  - The subject will be on the right in the combined image.



- How to cancel the two-in-one picture mode
  - → To cancel the two-in-one picture mode after taking the first shot, press 
    The first shot will not be stored.





- You cannot take two-in-one (2 IN 1) pictures in the mode.
- During two-in-one (2 IN 1) shooting, the following functions are disabled:
  - Panorama shooting
  - Sequential shooting/AF sequential shooting
  - Auto bracketing (BKT)
- Two-in-one (2 IN 1) pictures are saved in SHQ in the TIFF record mode.

# FUNCTION — Taking black & white or sepia-toned pictures

Lets you add special effect to your pictures during shooting. 4 effects are available.

**BLACK&WHITE**: Takes pictures in black and white.

**SEPIA** : Gives pictures a sepia tone.

WHITE BOARD : Pictures are in black and white, with black letters on white

backgrounds emphasized to make them easier to read.

**BLACK BOARD**: Same as WHITE BOARD, but for white letters on black backgrounds. Reverses blacks and whites in the image.

Mode dial setting

P **A/S/M**/M \$₩

In the top menu, select MODE MENU → CAMERA → FUNCTION → Select a mode. Press ③. Press again to cancel the menu.

□ "How to use the menu" (P. 39)



### Modes & Function shooting

Mode	Р	A/S/M/™				S-Prg		
Function shooting	F	Α	S	М	<u>M</u> y} ∗	æ	S-Prg	
OFF	<b>√</b>		,	/	/			
BLACK & WHITE	<b>√</b>		\	<b>√</b>	<b>√</b>			
SEPIA	<b>√</b>		١	<b>√</b>	√			
WHITE BOARD	<b>√</b>		١	-	√			
BLACK BOARD	√		,	/		_	√	

<sup>√ :</sup> Available, − : Not available : Factory default setting

<sup>\*</sup> The available settings differ depending on which shooting mode is selected. See the P, A, S, M or S-Prg column.



• If letters do not show clearly with WHITE BOARD or BLACK BOARD
 → Use exposure compensation (P. 108).

# Note

- When WHITE/BLACK BOARD is selected, the flash does not fire.
- WB (white balance), ₩EZ (white balance compensation) and SATURATION cannot be used in Function shooting.

## **Record mode**

## Selecting record modes

Choose the best record mode for your purposes (printing, editing on a computer, web-site editing, etc.). To see how large SmartMedia memory capacity is under various conditions (such as different resolutions, compressions, or file formats), refer to the table on page 103. The numbers in the table are approximate.

Record mode	Description	Quality	File size
TIFF	The highest-quality mode. Images are saved as uncompressed data, which is the best for printing or image-processing on a computer. This mode has different resolutions to choose from, depending on how it is used. Selecting 32 lets you print the entire image without losing its borders—almost the same image size used by photo labs.	More clear	Larger
SHQ	A high quality mode using the JPEG format. Because the compression rate is very low, high quality images can be stored. Selecting 22 lets you print the entire image without losing its borders— almost the same image size used by photo labs. The Enlarge Size function is useful when printing on large-format paper such as A3 (11" x 14"/28 cm x 36 cm).		
HQ	A high quality mode using the JPEG format, with medium compression. Because the compression rate is higher than SHQ, file sizes are smaller, so more images can be saved to a card. Like SHQ, resolution can be increased by using 32 or the Enlarge Size function.		
SQ1 SQ2	The most compressed modes. For each one, you can also choose HIGH (to reduce noise) or NORMAL (to save more images). Select the best settings for your purpose (printing, Internet pages, etc.).	<b>V</b> Normal	<b>∀</b> Smaller

### Still Picture Record Modes

The memory capacity listed here is approximate.

Record	Dace	lution	Compression	File format	Memory capac	ity in # of shots		
mode	nest	nation	Odilibicasioli	i iio ioiiilat	16MB	32MB		
	2288	x1712			1	2		
	<b>3:2</b> 22	88x1520			1	3		
TIFF	2048	x1536	Uncompressed	TIFF	1	3		
1111	1600	x1200	Ullcolliplesseu	''''	2	5		
	128	0x960	1		4	8		
	102	4x768			6	13		
	640	x480			16	33		
-	2288x1712				5	11		
SHQ	<b>3:2</b> 22	88x1520	Low		6	12		
ona	ENLARGE SIZE 3200x2400		compression		2	5		
228		x1712			16	32		
НΩ	<b>3:2</b> 22	3:2 2288x1520		3:2 2288x1520			18	36
IIQ .	ENLARGE SIZE 3200x2400		Normal		8	16		
		HIGH		JPEG	6	13		
	2048x1536	NORMAL			20	40		
		HIGH			11	22		
SQ1	1600x1200	NORMAL	*		32	64		
	1000-000	HIGH	1		17	34		
	1280x960	NORMAL			49	99		
	1004-700	HIGH			26	53		
000	1024x768	NORMAL	]		76	153		
SQ2	0.40400	HIGH			66	132		
	640x480	NORMAL	1		165	331		

\*HIGH uses low compression/NORMAL uses normal compression

## **Movie Record Modes**

Memory capacity in sec. per movie

Record mode	Resolution	16MB or over	
HQ	320x240 (15 frames/sec.)	33	
SQ	160x120 (15 frames/sec.)	148	

## Note ······



- In the top menu, select MODE MENU
  → PICTURE → ③, then press ▷. ☐
  "How to use the menu" (P. 39)
  - When ♣ is displayed on the top menu, press △, ⊲ or ∇ according to the arrow shown next to ♣ . This allows you to set ♣ directly instead of via MODE MENU.
- 2 P A/S/M/™ S-Prg:

Press  $\Delta \nabla$  to select the desired record mode (refer to the table on the previous page). Go to step 3.

҈≅:

Press  $\triangle\,\nabla$  to select HQ or SQ. Go to step 4.

- 3 Press △∇ to select the resolution (refer to the table on the previous page).
  - When you have selected SQ1/SQ2: After selecting the resolution, press ▷. Press △ ▽ to HIGH or NORMAL.
- Press (a) to save the setting.

Factory default setting: HQ





Number of storable still pictures

Record mode
Resolution

TIPS

#### Resolution:

The number of pixels (vertical x horizontal) used when saving an image. If the image will be printed, higher resolutions (larger numbers) are recommended so that the image will be clearer. However, higher resolutions make the file size (amount of data) larger, so less pictures can be saved to a card.

### Resolution and picture size on a computer screen:

When a picture is transferred to a computer, the size of the picture on the computer screen varies depending on the computer's monitor setting. For instance, a picture taken in 640x480 resolution is the same size as the screen if you set the picture to 1x when the monitor setting is 640x480. However, if the monitor setting is over 640x480 (such as 1024x768), the picture only takes up part of the screen.

### Compression rate:

In record modes other than TIFF, image data is compressed. The higher the compression rate, the less clear the image will be.

### • File format (P. 103):

This camera saves images with either TIFF or JPEG formats. In record modes other than TIFF, images are compressed in the JPEG format. The compression rate also varies in each mode (movies: Motion JPEG (mov) format).

## **⊘** Note ···

- The card memory capacity listed in the table is approximate (P. 103).
- The number of storable pictures differs depending on the record mode, the card's memory size and whether or not print reserve is applied for the card.
- The number of storable pictures may not be reduced every time a picture is taken, or increased when a picture is erased. The amount of data varies depending on the subject.
- When VIDEO OUT is set to PAL (P.166) → If movie pictures are shot with the video cable connected, the maximum recording time may be different from the table on page 103.

## 3:2

The image aspect ratio is normally 4:3. If the aspect ratio is changed to 3:2, the image can be printed without losing the image borders at a photo lab. When \$:2 is activated, resolution is 2288 x 1520 pixels. In the TIFF, SHQ or HQ mode, you can select \$:2. In the \$(\mathbb{M})\$ (movie) mode, \$:2 is not available.

 The monitor turns on automatically if this mode is selected. Check the monitor image before shooting.



When 3:2 is selected

## **ENLARGE SIZE**

When ENLARGE SIZE is selected (only possible in HQ or SHQ), the actual 4 million pixels used by this camera can be increased as if they were approx. 8 (3200 x 2400) million pixels. This allows you to make quality prints in larger sizes, such as A3 (11" x 14"/28 cm x 36 cm). However, file sizes also become larger. ENLARGE SIZE is not available in the (movie) mode.

## 

# **ISO** sensitivity

The higher the ISO value, the greater the camera's light sensitivity and the better its ability to shoot in low-light conditions. However, higher values also introduce electrical noise into the resulting image, which may make give them a grainy appearance.

Mode dial setting P A/S/M/My s.Frg

In the top menu, select MODE MENU  $\rightarrow$  CAMERA  $\rightarrow$  ISO. Select the most suitable ISO from the options listed below. Press

®. Press again to cancel the menu.
F "How to use the menu" (P. 39)

#### AUTO:

Sensitivity is automatically adjusted according to the lighting conditions and the subject brightness.

### 100/200/400:

100 is best when you want to shoot clear, sharp images in daylight. With a higher ISO setting, you can use faster shutter speeds with the same amount of light.





ISO

When ISO is set to AUTO, this does not appear.

## Modes & ISO Sensitivity

Mode	Р	A/S/M/™				S-Prig		
ISO	r	Α	S	М	<b>™</b> } *	<b>8</b>	S-Prg	
AUTO			-			$\sqrt{}$	$\sqrt{}$	
100	√	✓			√	√	<b>√</b>	
200	√		<b>√</b>		√	√	<b>√</b>	
400	√		√		√	√	√	

<sup>√:</sup> Available, – : Not available : Factory default setting

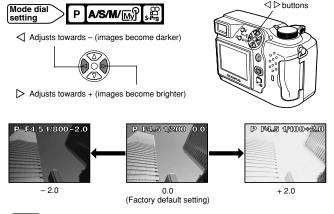
<sup>\*</sup> The factory default setting and the available settings differ depending on which shooting mode is selected. See the P, A, S, M or S-Prg column.

# Note •

- Higher ISO settings can produce more electrical noise.
- ISO is standardized based on the sensitivity of normal camera film. The scale is approximate.
- When ISO is set to AUTO and you are shooting in dark conditions without a flash, ISO automatically increases; otherwise the shutter speed will be reduced, possibly resulting in blurred images due to camera movement.
- If a subject is too far away for the flash illumination to reach it when the ISO is set to AUTO, the ISO is automatically increased.
- When using slow synchronization in the P, A or S mode, the slowest available shutter speed varies depending on the ISO setting.

# **Exposure compensation**

This function allows you to make fine changes to the present exposure setting. In some situations, you may get better results when the exposure that the camera sets is compensated (adjusted) manually. You can adjust between +/-2.0 in 1/3 steps. When the setting is changed, you can check the result on the monitor.



#### **Modes & Exposure Compensation**

Р	A/S/M/ 🔊				S-Prg	
	Α	S	М	₩Ŷ	<b>2</b>	S-Prg
	√		-	(except M)	,	/

./ : Available, -: Not available



 Often, bright subjects (such as snow) will turn out darker than their natural colors. Adjusting towards "+" makes these subjects closer to their real shades. For the same reason, adjust towards "-" when shooting dark subjects.

# White balance

Color reproduction differs depending on the lighting conditions. For instance, when daylight, the setting sun, or indoor lighting are reflected on white paper, the shade of white produced will be slightly different for each. By setting the WB (white balance), you can achieve more natural-looking color.



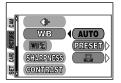
In the top menu, select MODE MENU → PICTURE → WB, then select the best WB (AUTO, PRESET, ♣) for your shooting conditions.

When you select AUTO: Press (3). Press again to cancel the menu (P. 110).

When you select PRESET: Press ▷. Go to "PRESET (preset white balance)" (P. 110).

When you select □: Press ▷. Go to "□ (One-Touch white balance)" (P. 111).

F "How to use the menu" (P. 39)



### AUTO (auto white balance)

Automatically adjusts the white balance for any light source.

# PRESET (preset white balance)

Select a preset white balance setting according to the type of the light. Press  $\Delta \nabla$  to select either of the following settings and press  $\$  . Press again to cancel the menu.

- Adjusts the white balance for shooting on a sunny day.
- Adjusts the white balance for shooting on a cloudy day.
- Adjusts the white balance for shooting under tungsten light.
- Adjusts the white balance for shooting under daylight fluorescent lamp (6700K). This type of lamp is used mainly in houses.
- : Adjusts the white balance for shooting under neutral white fluorescent lamp (5000K). This lamp is generally used in desk lamps, etc.
- : Adjusts the white balance for shooting under cool white fluorescent lamp (4200K). This lamp is generally used in offices, etc.
- You can also preview different color tones by trying the different PRESET WB settings under the actual light source, and checking the result on the monitor.
- Color temperature values above are approximate.

PRESET WB

PRESET WB

CANCEL® SELECT® GO® OK

PRESET WB

CANCEL® SELECT® GO® OK

# (One-Touch white balance)

This function is useful when you need more precise white balance than PRESET WB can give. To set the proper white balance for the shooting conditions, point the camera at a white object under the light source you want to use and adjust the white balance.

- Select 🚨 as shown on page 109.
  - The ONE TOUCH WB screen appears.

ONE TOUCH WB screen



- Point the camera at a sheet of white paper.
  - Position the paper so that it fills the screen entirely. Be sure there is no shadow or background showing around the paper.
- 3 Press (a) to store the new white balance setting.
  - To cancel ☐ ONE TOUCH WB, press



Factory default setting: AUTO





White balance — When white balance is set to AUTO, this does not appear.

# 

- Set white balance to AUTO for normal shooting.
- When setting the white balance by pointing the camera at white paper, the setting may be incorrect if the light reflected by the paper is too bright or dark.
- White balance may not be effective under some special light sources.
- After setting the white balance, playback the image and check the color on the monitor.

# White Balance Adjustment

This function allows you to make fine changes to the white balance.



- In the top menu, select MODE MENU
  → PICTURE → WB½ . Press ▷.
  - F "How to use the menu" (P. 39)
  - The white balance adjustment indicator appears on the screen.
- 2 The color becomes bluer each time you press △, and redder each time you press ▽, depending on the original white balance conditions. Press ⓐ to save your adjustment.
  - White balance can be adjusted between +7 and -7.

Factory default setting: ±0



wet screen



White balance adjustment indicator

# **Sharpness**

This function adjusts the sharpness of images.

Mode dial setting P A/S/M/My

- In the top menu, select MODE MENU
  → PICTURE → SHARPNESS. Press ▷.

  "" "How to use the menu" (P. 39)
- 2 To increase sharpness (+):
  Press △. Image contours are
  emphasized, making the image appear
  sharper. This is ideal for printing.
  To reduce sharpness (-):

Press  $\nabla$ . Image contours are softened. This is suitable for image editing on your PC.

- Sharpness can be adjusted between +5 and -5 using △∇.



Factory default setting: ±0

Note ••

When adjusted too much towards +, noise may appear.

# Contrast

This function adjusts the contrast of images.

For example, images with strong differences in light and shadow can become milder, while those with weaker differences can become more vivid.

Mode dial setting P A/S/M/My 5-Prg

In the top menu, select MODE MENU
→ PICTURE → CONTRAST. Press ▷.

""How to use the menu" (P. 39)

2 To increase contrast (+):

Press  $\triangle$ . Light and dark areas are defined more clearly. This makes images look crisper.

To reduce contrast (-):

Press  $\nabla$ . Images become softer. This is suitable for image editing on your PC.

- Contrast can be adjusted between +5 and -5 using △∇.
- When you are finished setting the contrast, press 
   B. Press again to cancel the menu.

Factory default setting: ±0



# **Saturation**

This function adjusts the color depth level.

Mode dial setting



In the top menu, select MODE MENU → PICTURE → SATURATION. Press ▷.

F "How to use the menu" (P. 39)

2 To increase saturation (+):

Press  $\triangle$ . Colors become darker and more intense.

To reduce saturation (–):

Press  $\nabla$ . Colors become lighter.

- Saturation can be adjusted between +5 and -5 using △∇.
- When you are finished setting the saturation, press \*\*B. Press again to cancel the menu.

Factory default setting: ±0

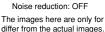


# **Noise reduction**

This function reduces the noise that appears on images during long exposures. When shooting night scenes, shutter speeds become slower and noise tends to appear on images. When noise reduction is set to ON, the camera automatically reduces noise to produce clearer images. However, shooting time is approximately twice as long as usual.

Noise reduction can only be used when the shutter speed is set slower than 1 sec.







Noise reduction: ON The images here are only for showing noise reduction effects. They

Mode dial settina



In the top menu, select MODE MENU → CAMERA → NOISE REDUCTION → ON. Press (a). Press again to cancel the menu. F "How to use the menu" (P. 39)

Factory default setting: OFF





- Noise reduction is always on in the mode.
- When you set noise reduction to ON, shooting time is approximately twice as long as usual, because the camera needs extra time to finish the noisereduction process. During this time, shooting the next picture is not possible.
- When NOISE REDUCTION is ON, sequential shooting (☐, AF☐, BKT) is not possible.
- This function may not work well with some shooting conditions or subjects.
- Since the shutter speed is slower when noise reduction is ON, we recommend that you use a tripod.

# Playing back still pictures

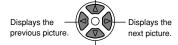
### Single-frame playback

Plays back one picture.



- - The monitor turns on and displays the last picture taken.
- **2** Use the arrow pad to play back other pictures.

Jumps to the picture 10 frames behind.



Jumps to the picture 10 frames ahead.



### Quick View

This function lets you play back pictures while the camera is in the shooting mode. This is useful when you want to check shooting results quickly. Every picture and function available in playback mode is also available in Quick View.

Mode dial setting P A/S/M/M/ S.Frg

- Press (monitor button) twice quickly (double-click) while in the shooting mode.
  - The monitor turns on and displays the last picture taken.
  - To play back other pictures, use the arrow pad in the same way as single-frame playback.
- **2** To return to shooting, press the shutter button halfway.



# Slide-show

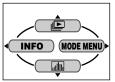
This function displays pictures from the card one after another. Movies are played back like still pictures, starting from the first frame.



- Display a still picture. Then, press to display the top menu.
- **?** Press  $\triangle$  to start the slide-show.
- 3 Press (a) to stop the slide-show.



Playback top menu (still pictures)



# **Q** Note .....

- Use of the optional AC adapter is recommended when running a slide-show for long periods of time. If batteries are being used, the camera will end the slide-show after about 30 minutes and enter sleep mode.
- The slide-show will not stop until you cancel it by pressing \(\mathbb{B}\).

# Playing back movies — MOVIE PLAY

This function lets you play back or edit movies.

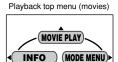
Mode dial setting

1 Use the arrow pad to select a picture with  $\Theta$ .





2 Press ® to display the top menu.



- $\mathbf{3}$  Press  $\triangle$ .
  - The MOVIE PLAY screen is displayed.

#### MOVIE PLAYBACK:

Plays back movies (P. 122).

#### INDEX:

Displays movies as indexes of 9 still frames (P. 124).

#### EDIT:

Lets you edit movies (P. 126).

# MOVIE PLAY screen



- 4 Select the item on the MOVIE PLAY screen that you need, then press (8).
  - See the following pages for how to use each on the MOVIE PLAY screen.

# **②** Note ····

 When playing back a movie, access time will vary depending on the length and record mode of the movie. The card access lamp blinks while movie data is being accessed.

### MOVIE PLAYBACK

Plays back movies.



- Follow steps 1-3 on pages 120 and 121.
- 2 Press △∇ to select MOVIE PLAYBACK on the MOVIE PLAY screen.
- ? Press ® to start playback.
  - When movie playback ends, the display automatically returns to the beginning of the movie.
- △ ♥ ♦ buttons

- ⚠ Press <sup>®</sup>.
  - The MOVIE PLAYBACK screen is displayed.

#### PLAYBACK:

Plays back the entire movie.

#### FRAME BY FRAME:

Plays back the movie manually one frame at a time.

#### EXIT:

To play back other movies, exit the movie playback mode and select a different movie.

#### MOVIE PLAYBACK screen



- A Press (8) to start your choice.
  - When FRAME BY FRAME is selected, follow the instructions below.
  - When EXIT is selected, the MOVIE PLAY screen appears. To exit, press <</li>

### ■ Displaying movies using the arrow pad

- $\triangle$ : Displays the beginning of the movie.
- $\nabla$ : Displays the end of the movie.
- Every time you press the button, the next frame appears. The movie can be displayed continuously by holding the button down.
- Servery time you press the button, the previous frame appears. The movie can be displayed continuously in reverse by holding the button down.
- Displays the MOVIE PLAYBACK screen.

### INDEX

Movies can be displayed as indexes of still frames. Indexes can be saved on the card as still pictures. Indexes are not stored in the same record mode as movies (see below).

Record mode when the movie is shot	Record mode when stored as an index		
HQ	SQ2 (1024x768)		
SQ	SQ2 (640x480)		



- Follow steps 1-3 on pages 120 and 121.
- **2** Press  $\triangle \nabla$  to select INDEX on the MOVIE PLAY screen.
  - MOVIE PLAY screen.
     The first-frame selection screen appears.
    - The card access lamp blinks while the movie is being accessed.
    - "[] CARD FULL" (P. 189) appears if there is not enough memory left on the card to display the index.
- **3** Press  $\triangleleft \triangleright$  to select the first frame of the index, then press  $\circledast$ .
  - After the first frame is selected, the selection frame moves to the last frame of the index

#### ■ Using the arrow pad

- $\triangle$ : Jumps to the first frame of the movie.
- $\nabla$ : Jumps to the last frame of the movie.
- >: Each press of the button displays the next frame. Movies are played by holding the button down.
- 4: Each press of the button displays the previous frame. Movies are played in reverse by holding the button down.



Elapsed time / Total time



First-frame selection screen

4 Select the last frame of the index using the arrow pad (See step 3).



5 Press 3.

• INDEX screen appears.

#### OK:

Saves the index on the card. The menu disappears from the screen.

#### RESET:

Resets the index. Returns to the first-frame selection screen.

#### CANCEL:

Cancels the index. Returns to the MOVIF PLAY screen

#### INDEX screen



6 Press △▽ to select items.

**7** Press (a) to run your choice.

 When EXIT is selected, the MOVIE PLAY screen appears. To exit, press <</li>

### ..... **(2** Note ......

# EDIT

This function allows you to edit movies by erasing parts you do not want.

Mode dial setting

- Follow steps 1-3 on pages 120 and 121.
- **2** Press △∇ to select EDIT on the MOVIE PLAY screen.
  - MOVIE PLAY screen.The first-frame selection screen appears.
  - The card access lamp blinks while the movie is being accessed.
  - "[] CARD FULL" (P. 189) appears if there is not enough memory left on the card to edit the movie.
- **3** Press  $\triangleleft \triangleright$  to select the first frame of the movie, then press  $\circledast$ .
  - After the first frame is selected, the selection frame moves to the last frame of the movie.

#### ■ Using the arrow pad

- $\triangle$ : Jumps to the first frame of the movie.
- ∇: Jumps to the last frame of the movie.
- >: Each press of the button displays the next frame. Movies are played by holding the button down.
- : Each press of the button displays the previous frame. Movies are played in reverse by holding the button down.



First-frame selection screen



4 Select the last frame of the movie by using the arrow pad. (See step 3)

Last-frame selection screen



5 Press ®.

• EDIT screen appears.

#### OK:

- Selects NEW FILE or OVERWRITE
- \* NEW FILE saves the edited movie as a new movie with a different file name.
- \* OVERWRITE saves the edited movie with the original file name. The original movie will be erased

#### RESET:

Resets EDIT. Returns to the first-frame selection screen.

#### CANCEL:

Cancels EDIT. Returns to the MOVIE PLAY screen

EDIT screen





 $\triangle$  Press  $\triangle \nabla$  to select items.

- **7** Press 🏽 to run your choice.
  - When EXIT is selected, the MOVIE PLAY screen appears. To exit, press <</li>
  - When OK is selected, press △∇ to select NEW FILE or OVERWRITE, then press ⑥. The movie is edited.

# Note

- NEW FILE is not available when the card does not have enough memory.
- It is not possible to edit movies that were recorded together with sound on another camera.

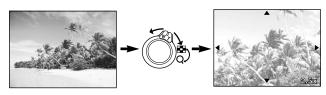
# Close-up playback

Pictures displayed on the monitor can be enlarged. Each time you turn the zoom lever towards T, pictures are enlarged by 1.5 – 4 times.

Mode dial setting

- With the arrow pad, select the picture you want to enlarge.
  - Pictures with the ≅ mark cannot be enlarged.
- **7** Turn the zoom lever toward T ( $\bigcirc$ ).
  - When a picture is enlarged, ◀/►/▲/▼ are displayed. Press the arrow corresponding to the direction you want to view. The enlarged picture is shifted in the desired direction, allowing you to view a different portion of the image.







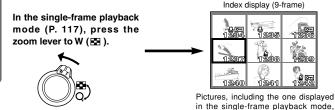
- How to return the picture to the original size (1x)
  - → Turn the zoom lever to W.
- How to display another picture
  - →Turn the zoom lever to W to return to 1x, then select the desired picture by using the arrow pad.

### ····· Note ······

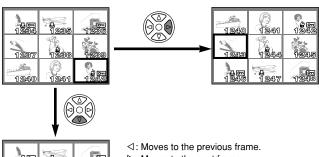
- If picture rotation is attempted during close-up playback, close-up playback is canceled.
- When you enlarge a picture on the monitor, you cannot save the enlarged image.

# **Index display**

This function lets you show many pictures at the same time on the monitor. It is useful for comparing your pictures and choosing the best ones. The number of pictures shown can be 4, 9, or 16 (see the next page).



■ How to use the arrow pad during an index display



- 1243 1244 1246 1246 1247 1248 1249 1250 1251
- > Moves to the next frame
- △: Jumps to the previous index display (the frames before the top left frame).

appear in the index display.

∇: Jumps to the next index display (the frames following the bottom right frame).



- How to view a full-size picture from the index
  - → Select the picture with the arrow pad, then press the zoom lever toward T.

# Selecting the number of pictures

This function lets you change the number of pictures in an index display.



F "How to use the menu" (P. 39)



2 Choose the number of pictures (4, 9 or 16) and press (a).

Press again to cancel the menu.





# **Editing still pictures**

Allows you to edit still pictures and save them as new ones.

- Changes picture dimensions to 640 x 480 or 320 x 240 and saves the picture as a new file. Use this function to make the image file size smaller, for instances such as attaching the picture to e-mail.
- : Enlarges a part of a picture and saves it as a new picture.



- Use the arrow pad to select the still picture you want to edit.
- 2 In the top menu, select MODE MENU → EDIT → select an item. ☐ "How to use the menu" (P. 39)
  - When selecting : See below.
  - When selecting # : P. 133



# Resizing pictures 🔁



- Perform steps 1 and 2 of "Editing still pictures" above.
- **2** Press ▷.
  - The screen appears.

#### 640 x 480/320 x 240:

File sizes used when storing pictures as new ones.

#### CANCEL:

Cancels resizing pictures. To edit other pictures instead, select this item. The screen returns to normal playback.



- $\begin{array}{ll} \textbf{3} \ \, \text{Press} \, \, \triangle \, \nabla \, \, \text{to select the file size and} \\ \text{press} \, \, \textcircled{\$} \, \, \text{to edit.} \end{array}$ 
  - A bar is displayed to show editing progress and the screen returns to normal display.

# Note ••

- In the following cases, 🔁 is not available:
  - Movie
  - Pictures processed on a PC
  - When the card is protected or when "[] CARD FULL" appears (indicating there is no memory left).
  - If the size of the selected picture is 640 x 480, 640 x 480 is not available.

# Trimming pictures 📮



- Perform steps 1 and 2 of "Editing still pictures" on P. 132.
- **?** Press ▷.

### 古:

Enlarges the selected part of a picture and saves it as a new picture.

#### CANCEL:

Cancels trimming. To edit other pictures instead, select this item. The normal display is restored.





- **3** Press △∇ to select 

  and press 

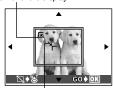
  .

  The trim screen appears.
- 4 Set the top left corner point of the desired picture. Move the corner point of the trimming frame using the zoom lever.
- 5 Press ® to save the top left corner point.
  - Press the arrow pad to move the trimming frame. Press the arrow corresponding to the direction you want to move. If the trimming frame has reached the trimming limit, the corresponding arrow is not displayed.



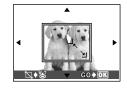


Move the zoom lever towards W. The corner point of the trimming frame moves towards the top left corner of the display.



Move the zoom lever towards T. The corner point of the trimming frame moves towards the bottom right corner of the display.

- 6 Set the bottom right corner point using the zoom lever as described in step 4. Press (a) to save the bottom right corner point.
  - Press the arrow pad to move the trimming frame. Press the arrow corresponding to the direction you want to move. If the trimming frame has reached the trimming limit, the corresponding arrow is not displayed.



### 7 Press ® to complete setting.

 The trimmed image is shown, and the screen is displayed.

#### OK:

Saves the trimmed image on the card and returns to normal playback.

#### RESET:

Restores the original image. Select this item to trim again.

#### CANCEL:

Cancels the trimming and returns to normal playback.

O K

RESET

CANCEL

SELECT♦ ⊕ GO♦ ØX

# **8** Press $\triangle \nabla$ to select an item and press

# · • Note ··

- is not available when the card is protected or when "CARD FULL" appears (indicating insufficient memory).
- If pictures recorded in 322 are trimmed, the image proportions are changed to the standard 4:3 aspect ratio.
- If a trimmed image is printed out, it may appear grainy.
- It is not possible to trim images recorded in the ENLARGE SIZE record mode.
- Trimming may not work with images recorded using other cameras.

# **Protect**

It is highly recommended that you protect important pictures to avoid accidentally erasing them. Protected pictures cannot be erased by the single-frame/all-frame erase function.



- Display the picture you want to protect by using the arrow pad.
- Press on. The picture is now protected.
  - To cancel protection, press → again.



Displayed when a picture is protected.



# Note …

- Protected pictures cannot be deleted with the ALL ERASE (all-frame erase) function, but they can be deleted with the To FORMAT (format) function.
- Protection cannot be applied to pictures stored on a card with a writeprotect adhesive seal.

# **Erasing pictures**



Recorded pictures can also be erased. This can be done either one frame at a time or to all the pictures in the card.

### · • Note ······

- It is not possible to erase protected pictures or pictures stored on a card that has a write-protect seal.
- Once erased, pictures cannot be restored.

# Single-frame erase

This function only erases the picture displayed on the monitor. Erasing further pictures must be done one-by-one if using this function.



- Select a picture you wish to erase by using the arrow pad.
  - If the picture is protected, cancel the protection first (P. 136).



- → Press the 

  (erase) button.
  - The 🛣 ERASE screen is displayed.
- $\mathbf{?}$  Press  $\triangle$  to select YES.





- ⚠ Press <sup>®</sup> to erase the picture.
  - To cancel erasing, select NO in step 3 and press <sup>®</sup> , or press the <sup>™</sup> button again.

### All-frame erase

This function erases all still pictures and movies on the card, except protected ones (P. 136).



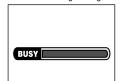
- In the top menu, select MODE MENU → CARD → CARD SETUP. ☐ "How to use the menu" (P. 39)
- **2** Press ▷.
  - The CARD SETUP screen is displayed.
- **3** Press  $\triangle$  to select  $\mathcal{A}$  ALL ERASE, then press  $\mathcal{A}$ .
- The Was ALL ERASE screen is displayed.
- $\triangle$  Press  $\triangle$  to select YES.
- 5 Press (8) to start erasing.
  - A bar is displayed to show the progress of erasing.
  - To cancel erasing, select NO in step 4 and press (3).



ALL ERASE screen



Screen during erasing



# **Formatting cards**



This function lets you format a card. Formatting prepares cards to receive data. Olympus CAMEDIA-brand cards are highly recommended for use with this camera. If you are going to use non-OLYMPUS cards or cards formatted by other devices such as a computer, you must format them with the camera before use. Cards can be formatted in all modes.

Mode dial setting



In the top menu, select MODE MENU

→ CARD → CARD SETUP. ☐ "How to
use the menu" (P. 39)

### **↑** Press ▷.

- P A/S/M/ M # : The T FORMAT screen is displayed.
- E: The CARD SETUP screen is displayed.



**▶**: Press  $\triangle$  to select  $\bigcirc$  FORMAT, then press  $\bigcirc$  . The  $\bigcirc$  FORMAT screen is displayed. Press  $\triangle$  to select YES.

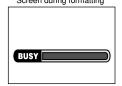
- ⚠ Press <sup>®</sup> to start formatting.
  - A bar is displayed to show the progress of formatting.
  - To cancel formatting, select NO in step 3 and press



FI FORMAT screen



Screen during formatting





- All existing data stored on the card is erased when the card is formatted.
   Make sure that you save or transfer important data to a PC before formatting a used card.
- Recording time may be longer with non-OLYMPUS cards and computerformatted cards. In such cases, re-formatting with the camera is recommended.
- Cards with a write-protect seal cannot be formatted.

# Playback on a TV

Use the provided video cable to play back recorded images on your TV.

Mode dial setting

- Make sure that the TV and camera power are off.
- 2 Connect the camera's VIDEO OUT jack to the TV using the video cable.

  Connect to the TV's video input (yellow) terminal.

  Video cable

  Connect to the VIDEO OUT jack.
- 3 Set the mode dial to **I**. Turn on the TV. Set the TV to the video input mode.
  - For details on switching to video input, refer to your TV's instruction manual.
- 4 Select an image by using the arrow pad.
  - The selected image will be displayed on the TV.



- The optional AC adapter is recommended when using the camera with a TV.
- Images can be rotated only when they are played back on a TV. See the next page for details.

# ♠ Note ····

- Make sure that the camera's video output signal type is the same as the TV's video signal type. 

  "Video output selection" (P. 166)
- The camera's monitor turns off automatically when the camera is connected to a TV.
- The image may appear off-center on the TV screen. This is due to the TV's adjustment settings.
- When images are compressed in order to fit the entire image on a TV screen, a black frame is placed in the blank parts of the screen around the image. If the image is output to a video printer via the TV, the black frame may be printed.

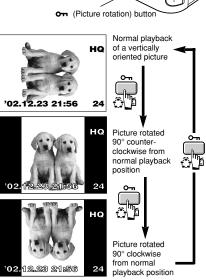
### Picture rotation

There may be times when you want to rotate a picture. For example, pictures taken with the camera held vertically are also oriented vertically (i.e. longer vertically than horizontally). With picture rotation, you can turn them horizontally, 90 degrees clockwise, or counter-clockwise.



Mode dial setting

- Display a vertically oriented picture in the single-frame playback mode (P. 117).
- 2 Each time the On (picture rotation) button is pressed, the picture is rotated as shown.



# Note

- Movie pictures cannot be rotated.
- New picture orientations are saved even when the power is turned off.
- Close-up playback is possible after pictures are rotated. However, pictures cannot be rotated while in close-up playback (P. 129).
- The following pictures cannot be rotated: protected pictures, pictures on a card with a write-protect seal, pictures taken with other cameras.

### All reset

# Saving the camera's settings

This function lets you choose whether or not the camera saves its current settings.

**OFF:** The settings made just before the power is turned off are saved.

ON: All settings are returned to the factory default settings (P. 144).

The settings affected by All Reset are listed below.

The ALL RESET setting (ON/OFF) applies to all the modes. If ALL RESET is set to OFF in one shooting mode, this setting applies to all other shooting modes, as well as the playback and modes.

When ALL RESET is set to OFF, the OFF setting does not apply to functions (For example, 🗃 : setting FULLTIME AF, INFO, etc.) that are not available in the current mode.

All reset does not affect the menu's SETUP items.



In the top menu, select MODE MENU → SETUP → ALL RESET → ON or OFF. Press ③ . Press again to cancel the menu.

□ "How to use the menu" (P. 39)

Factory default setting: ON



#### Items that All Reset affects

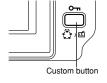
Setting	Factory default setting
FNo (P. 53)	F2.8
SHUTTER (P. 54)	1/1000
<b>№</b> (P. 108)	±0
LCD*	OFF
ZOOM (P. 73)	32mm
FLASH MODE (P. 75)	AUTO
⊡/ <b>♥</b> (P.82, 89)	OFF
<b>ీ</b> (P. 91)	OFF
DRIVE (P. 92)	
AF/MF (P. 63)	AF
ISO (P. 107)	AUTO
5½ (P. 81)	±0
<sup>3</sup> √3 FLASH (P. 177)	<i>D</i> <sup>∉</sup> +NI
\$ SLOW (P. 78)	\$ SLOW1
NOISE REDUCTION (P. 116)	OFF
MULTI METERING (P. 83)	OFF

Setting	Factory default setting
DIGITAL ZOOM (P. 74)	OFF
FULLTIME AF (P. 61)	OFF
AF MODE (P. 60)	iESP
s <b>™</b> (P. 90)	OFF
PANORAMA (P. 96)	OFF
2 IN 1 (P. 98)	OFF
FUNCTION (P. 100)	OFF
INFO (P. 155)	OFF
(P. 157)	OFF
(for still pictures) (P. 102)	HQ
WB (P. 109)	AUTO
WB½ (P. 112)	±0
SHARPNESS (P. 113)	±0
CONTRAST (P. 114)	±0
SATURATION (P. 115)	±0

<sup>\*</sup> This sets the monitor's ON/OFF when the camera is turned on.

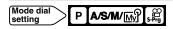
# **Custom button**

Menu items listed in the table below can be set to the custom button on the camera. This makes it easy to jump to frequently-used functions by pressing only one button. The factory default setting is " $\hat{\Phi}$  (virtual dial)".



Available Items	Settings
○ VIRTUAL DIAL	A/S/M/ 🖼 : A, S, M, 🖼 , 🖦 2 , 🖼 3 , 📾 4
(factory default setting) (P. 47, 48)	££; ₩, ₩, ₩, ₩, ₩, ₹₹, ₹₹
AE LOCK (P. 86)	-
<b>ీ</b> (P. 91)	OFF, ON
DRIVE (P. 92)	□, 및, AF및, BKT
ISO (P. 107)	AUTO, 100, 200, 400
™ FLASH (P. 177)	IN+ ≒□ , ≒□
\$ SLOW (P. 78)	\$ SLOW1, \$ SLOW2, <b>③</b> \$ SLOW
NOISE REDUCTION (P. 116)	OFF, ON
DIGITAL ZOOM (P. 74)	OFF, ON
FULLTIME AF (P. 61)	OFF, ON
AF MODE (P. 60)	iESP, SPOT
s₩ (P. 90)	OFF, ON
FUNCTION (P. 100)	OFF, BLACK&WHITE, SEPIA, WHITE BOARD, BLACK BOARD
INFO (P. 155)	OFF, ON
ш (Р. 157)	OFF, ON
(for still pictures) (P. 102)	TIFF, SHQ, HQ, SQ1, SQ2
WB (P. 109)	AUTO, ‡, 凸, ‡, 崇, 崇

### Setting the custom button



- 1 In the top menu, select MODE MENU

  → SETUP → CUSTOM BUTTON. Press

  ▷ . ☞ "How to use the menu" (P. 39)
  - The CUSTOM BUTTON screen appears.
- $\begin{tabular}{lll} \bf 2 & {\bf Select} & {\bf the function you want by using} \\ $\triangle \nabla$, then press $$$ to save your setting. \\ \end{tabular}$



**CUSTOM BUTTON screen** 



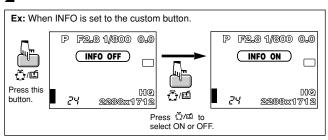
#### Using the custom button

Mode dial setting P A/S/M/My s-Prg

- Press the 🍮/<sup>™</sup> (custom) button.
  - The function currently set to the custom button appears.



#### 2 Set following the below:





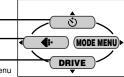
- To use ⊕ VIRTUAL after setting a different function to the custom button:
  - → Ĉ<sup>VIBTUAL</sup> cannot be used when a different function is set to the custom button. Re-set Ĉ<sup>VIBTUAL</sup> to the custom button by following "Setting the Custom Button" on page 146.

### ····· Ø Note ····

• You cannot set the custom button separately for P, A/S/M/ 🔊 and 🕰 .

# **Shortcut**

You can replace 2 functions, which are of functions on the top menu other than MODE MENU, with those listed in the table below. This is useful when you want to quickly go to frequently-used functions.

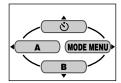


Shortcut menu

Available Menu Items	Settings	
<b>రు</b> (P. 91)	OFF, ON	
DRIVE (P.92)	□ (Single-frame), □ (Sequential),	
	<sup>AF</sup> (AF Sequential), BKT	
ISO (P. 107)	AUTO, 100, 200, 400	
፻½ (P. 81)	-2 - ±0 - +2	
₹¶ FLASH (P. 177)	IN+ ¾ (main+external), ¾ (external only)	
\$ SLOW (P. 78)	SLOW1, SLOW, SLOW2	
NOISE REDUCTION (P. 116)	OFF, ON	
MULTI METERING (P. 83)	OFF, ON	
DIGITAL ZOOM (P. 74)	OFF, ON	
FULLTIME AF (P. 61)	OFF, ON	
AF MODE (P. 60)	iESP, SPOT	
₩ (P. 90)	OFF, ON	
PANORAMA (P. 96)	1	
2 IN 1 (P. 98)	_	
FUNCTION (P. 100)	OFF, BLACK&WHITE, SEPIA, WHITE BOARD, BLACK BOARD	
	·	
INFO (P. 155)	OFF, ON	
	OFF, ON	
(still pictures) (P. 102)	TIFF, SHQ, HQ, SQ1, SQ2	
WB (P. 109)	AUTO, PRESET, 🚨 (One-Touch)	
<u>₩B½</u> (P. 112)	BLUE - ±0 - RED	
SHARPNESS (P. 113)	-5 - ±0 - +5	
CONTRAST (P. 114)	-5 - ±0 - +5	
SATURATION (P. 115)	-5 - ±0 - +5	

# Setting the shortcut menu

Assign functions to the A and B positions on the top menu.



The items you can change on the top menu vary depending on the camera's mode.



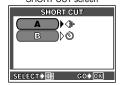
- In the top menu, select MODE MENU

  → SETUP → SHORT CUT. Press ▷.

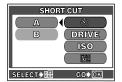
  □ "How to use the menu" (P. 39)
  - The SHORT CUT screen appears.
  - The A and B positions on the monitor are the same as the left and bottom on the top menu.
- 2 Select A, then press ▷ to display the menu functions on page 148.



SHORT CUT screen



- $\begin{tabular}{lll} \bf 3 & {\bf Select the item you want by pressing} \\ $\triangle \nabla,$ then press $$$$$ to save your setting. \\ \end{tabular}$ 
  - Repeat steps 2 and 3 to set B.

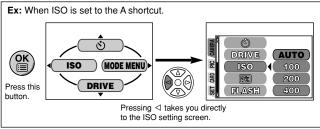


### Using the shortcut menu

Mode dial setting P A/S/M/My s-Frg

- Press (a) to display the top menu.
  - The shortcut menu you set before is shown on the top menu.
- Press the arrow pad according to the arrow (◀▼) shown next to each item.
  - The monitor jumps directly to the setting screen of that item.





#### Shortcut menu default setting

A: 🕪

B: DRIVE

Note

### **MY MODE SETUP**



Your favorite settings can be saved in MY MODE SETUP. When the mode is set to m, your customized settings are activated. When the camera is in the P or k (except a), you can also save some of the settings you are using in MY MODE SETUP. In MY MODE SETUP, you can create and save up to 4 different My Mode settings.

The settings affected by MY MODE SETUP are listed on P. 154.

Mode dial setting P A/S/M/My s-Prg

In the top menu, select MODE MENU → SETUP → MY MODE SETUP. Press ▷. ☐ "How to use the menu" (P. 39)



**Press**  $\triangle \nabla$  to select the item you want (see below), then press  $\triangleright$ .

**CURRENT:** Saves the settings you are

using now.

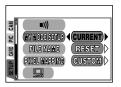
: Restores the factory default

cottings

settings.

RESET

**CUSTOM**: Saves settings one by one.



The "MY MODE SETUP" screen appears.

Press  $\triangle \nabla$  to select a My Mode position. You save the My Mode setting from  $\square$ 1,  $\square$ 2,  $\square$ 3 or  $\square$ 4. Press  $\square$ 6.

ର୍ଭୀ, ରୀଥ, ରୀଥ and ର୍ଭିୟ positions correspond to the ର୍ଜ୍ଭୀ, ରୀଥ, ରୀଥ and ରୀୟ on the A/S/M/ର୍ଜ୍ଭୀ mode virtual dial screen displayed when you press 🗟 .

When selecting CURRENT in step 2: Go to step 4.

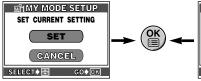
When selecting RESET in step 2: Go to step 4.

When selecting CUSTOM in step 2: Go to step 5.

4 Set CURRENT or RESET on each M MY MODE SETUP screen. After selecting the setting, press (a). Go to step 8.

To cancel the setting, select CANCEL.

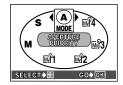
When CURRENT is selected: Select SET.



"MY MODE SETUP" screen



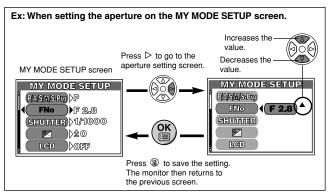
A/S/M/ mode virtual dial screen



When RESET is selected: Select ALL RESET.



- 5 Set CUSTOM on the MY MODE SETUP screen. Press △∇ to select the functions you want, then press ▷.
- **6** Select the setting within the function by using  $\triangle \nabla$ , then press **3**.
  - Repeat Steps 5 and 6 to change other functions



- When you have made all the settings you want, press (a) to exit from the MY MODE SETUP screen. Custom setting registration is complete.
  - The menu displayed in step 2 appears.
- R Press (6) to exit from the menu.

### · Note ·

 When you save settings in CURRENT, the saved zoom position may differ from the zoom position you are using. The zoom position is set to one of the 4 zoom positions included in ZOOM (function included in MY MODE SETUP). The value closest to the current zoom position will be selected.

#### **Available Items and Factory Default Settings**

Setting	Factory default setting
P/A/S/M/S-Prg (P. 49 – 52)	Р
FNo (P. 53)	F2.8
SHUTTER (P. 54)	1/1000
<b>፻</b> (P. 108)	±0
LCD*1	OFF
ZOOM*2 (P. 73)	32mm
FLASH MODE (P. 75)	AUTO
⊡/ <b>♥</b> (P. 82, 89)	OFF
<b>ీ</b> (P. 91)	OFF
DRIVE (P. 92)	
AF/MF (P. 63)	AF
ISO (P. 107)	AUTO
≨½ (P. 81)	±0
<sup>3</sup> √ FLASH (P. 177)	IN+ <sup>≥</sup> 5\
\$ SLOW (P. 78)	Ş SLOW1
NOISE REDUCTION (P. 116)	OFF
MULTI METERING (P. 83)	OFF

eungs		
Setting	Factory default setting	
DIGITAL ZOOM (P. 74)	OFF	
FULLTIME AF (P. 61)	OFF	
AF MODE (P. 60)	iESP	
st (P. 90)	OFF	
PANORAMA (P. 96)	OFF	
2 IN 1 (P. 98)	OFF	
FUNCTION (P. 100)	OFF	
INFO (P. 155)	OFF	
(P. 157)	OFF	
(for still pictures) (P. 102)	HQ	
WB (P. 109)	AUTO	
WB½ (P. 112)	±0	
SHARPNESS (P. 113)	±0	
CONTRAST (P. 114)	±0	
SATURATION (P. 115)	±0	

<sup>\*1</sup> This sets the monitor's ON/OFF when the camera is turned on.

<sup>\*2</sup> In the M mode, available zoom positions are 32mm/50mm/70mm/96mm (these numbers are based on a 35 mm camera).

# **Information display**



⊲button

Lets you select the amount of shooting information displayed in the shooting or playback mode. When it is set to OFF, only a small amount of information is displayed. For details on each piece of information displayed, see pages 12 to 15.

Mode dial setting P A/S/M/My s Frg •

P A/S/M/™ 🗯 :

In the top menu, select MODE MENU  $\rightarrow$  SETUP  $\rightarrow$  INFO  $\rightarrow$  ON. Press  $\circledast$ . Press again to cancel the menu.

▶:

Press  $\ensuremath{\mathfrak{B}}$  to display the top menu. Pressing  $\ensuremath{\triangleleft}$  turns INFO on.

F "How to use the menu" (P. 39)

- All shooting information is displayed.

#### Example: Playback mode



When INFO is OFF



button

When INFO is ON

# Note

In the mode, INFO is not available.



# Monitor brightness adjustment



Adjusts the brightness of the monitor.

Mode dial setting P A/S/M/My s-Prg S-Prg

In the top menu, select MODE MENU

→ SETUP → □.

F "How to use the menu" (P. 39)

2 To brighten the monitor, press △. To darken it, press ▽. To complete the setting, press ⑧.

Factory default setting: ±0





# **Beep sound adjustment**



You can set the volume of the beep used for button operations or warnings to OFF, LOW or HIGH. The factory default setting is HIGH, but you can turn the beep completely off if you don't want it.

Mode dial setting P A/S/M/My s.Prg

In the top menu, select MODE MENU → SETUP → □)) → OFF, LOW or HIGH. Press ③ . Press again to cancel the menu.

□ "How to use the menu" (P. 39)

Factory default setting: HIGH



# Histogram display



You can display a histogram showing the brightness and contrast of the subject in your monitor during shooting. Checking the histogram enables precise exposure control. During playback, you can display a histogram showing the brightness and contrast of recorded pictures.

The histogram display can be set separately for shooting modes and playback mode.



P A/S/M/™ s\alpha:

In the top menu, select MODE MENU  $\rightarrow$  CAMERA  $\rightarrow$   $\stackrel{\frown}{=}$   $\rightarrow$  ON or OFF. Press  $\stackrel{\frown}{\otimes}$ . Press again to cancel the menu.

▶:

Press  $\ensuremath{\mathfrak{B}}$  to display the top menu. Pressing  $\nabla$  turns  $\ensuremath{\overline{\mathbb{A}}}$  on.

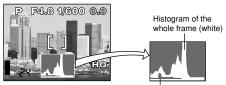
F "How to use the menu" (P. 39)



∇ button

- The histogram is displayed.

**Example**: When the histogram is displayed during shooting (P mode)



Histogram of the area in the AF target mark (green)

# Note

- It may not be possible to display histograms for images recorded with other cameras.

# **Rec View**

You can choose if the image being recorded is displayed on the monitor during shooting.

#### ON

The image being recorded onto the card is displayed. This is useful for a brief check of images you have just taken. Pressing the shutter button halfway at any time displays the image the camera is currently aimed at.

#### ■ OFF

The image being recorded onto the card is not displayed. Instead, the subject the camera is currently pointing at is displayed. This is useful when you want to prepare your next shot while the previous image is being recorded.



In the top menu, select MODE MENU  $\rightarrow$  SETUP  $\rightarrow$  REC VIEW  $\rightarrow$  ON or OFF. Press

® . Press again to cancel the menu.

F "How to use the menu" (P. 39)

Factory default setting: ON



# Note •

- If you shoot with the monitor off and battery power is too low, Rec View is not available.
- Rec View is always on in the mode.

# Power on/off display setting

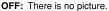
You can select a picture to display when the power is turned on/off. It is also possible to register your favorite picture for display when the power is turned on/off (P. 160). To select the already registered picture, select "2".

**PW ON SETUP:** Selects the picture that will be displayed when the power is turned on.

**PW OFF SETUP:** Selects the picture that will be displayed when the power is turned off.



In the top menu, select MODE MENU  $\rightarrow$  SETUP  $\rightarrow$  PW ON (PW OFF) SETUP  $\rightarrow$  OFF, 1 or 2. Press 3. Press again to cancel the menu. 2 "How to use the menu" (P. 39)



- 1 : Factory default setting
- 2 : Displays registered picture. If no picture is registered, the monitor does not display any picture when the camera's power is on/off.





 If the battery check indication appears when the power is turned off, the image you selected for PW OFF SETUP may not appear.

# **Screen setup**

You can register your favorite picture for display when the power is turned on/off. For more information on this function, refer to "Power on/off display setting" (P. 159).

Mode dial setting

Play back a picture you want to register.

In the top menu, select MODE MENU

→ SETUP → SCREEN SETUP. Press

- → SETUP → SCREEN SETUP. Press

  >. □ "How to use the menu" (P. 39)
- The SCREEN SETUP screen appears.
- **2** Press  $\triangle \nabla$  to select either of the following items:

To register a picture for power on, select PW ON.

To register a picture for power off, select PW OFF.

 If a picture is already registered, the IMAGE EXISTING screen is displayed which asks you if you want to cancel the currently registered picture and register a new one. If KEEP is selected, the screen returns to the initial PW ON/OFF selection screen.





- 3 Select a picture you want to register. Press (a).
  - The SCREEN SETUP screen appears and asks if you are sure you want to register a picture.

When selecting PW ON



When selecting PW OFF



- **⚠** Press  $\triangle \nabla$  to select OK, then press **③**.
  - The picture has been registered. When registration is complete, the screen returns to the PW ON/OFF selection screen displayed in step 2.
- 5 To exit from the SCREEN SETUP screen, press <1.



 It is not possible to register pictures that cannot be played back on this camera. No movie frames can be played back.

### File name

The camera automatically creates file names and folder names for images to be stored in. Files can be numbered from 0001 to 9999 and folders can be numbered from 100 to 999. Examples are shown below.

There are two choices here: RESET or AUTO. Choose the one that is best for you when transferring images to a computer.

#### ■ RESET

When RESET is selected, the file number and folder number are reset every time a new card is inserted in the camera. The folder number returns to No. 100, and the file number returns to No. 0001. This is useful when grouping files on separate cards.

#### AUTO

When AUTO is selected, the same folder number is retained, but the file number continues from the previous card, so that the same file number is not used on different cards. This helps you to manage multiple cards. This is useful when a group of files stretches over more than one card. Mode dial setting P A/S/M/My S-Prg

In the top menu, select MODE MENU

→ SETUP → FILE NAME.

F "How to use the menu" (P. 39)



**9** Select RESET or AUTO, then press **3**.

Factory default setting: RESET





When the File No. reaches 9999...

The file number returns to 0001, and the folder number changes, for example, from No. 100 to No. 101.

 When both the Folder and File No. reach each maximum number (999/9999)...

The number of storable pictures becomes 0, even if the card is not full yet. No more pictures can be taken. Replace the card with a new one.

# **Pixel Mapping**

The Pixel Mapping feature allows the camera to check and adjust the CCD and image processing circuit automatically. It is not necessary to operate this function frequently. Approximately once a year is recommended. Wait a few minutes after the monitor is used or continuous shots are taken to allow for proper performance of the Pixel Mapping function.



In the top menu, select MODE MENU → SETUP → PIXEL MAPPING. Press ▷.

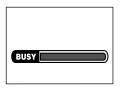
F "How to use the menu" (P. 39)

START appears.





- 7 Press 3.
  - A progress bar appears during Pixel Mapping.
    - When Pixel Mapping is finished, the screen returns to the menu.



# Note

• If the power is turned off during Pixel Mapping, start again from Step 1.

# Measurement units: m/ft (meters/feet)

Measurement units can be selected from either meters or feet in the manual focus mode. (P. 63)

At close ranges, the camera replaces meters/feet with centimeters/inches.

Mode dial setting P A/S/M/My s-Frg

In the top menu, select MODE MENU  $\rightarrow$  SETUP  $\rightarrow$  m/ft  $\rightarrow$  m or ft. Press  $\mbox{(a)}$  . Press again to cancel the menu.  $\mbox{($\mathbb{Z}$}$  "How to use the menu" (P. 39)

Factory default setting: m





• In the mode, the m/ft setting is not available.

# Video output selection

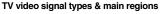
You can select NTSC or PAL according to your TV's video signal type. Select the video signal type before shooting. If you use the wrong video signal type, you will not be able to play back the recorded images properly on your TV.

Mode dial setting P A/S/M/My 5-Prg

In the top menu, select MODE MENU → SETUP → VIDEO OUT → NTSC or PAL. Press @. Press again to cancel the menu.

"" "How to use the menu" (P. 39)

 The factory default setting varies depending on the area where you purchased this camera.



NTSC: Japan, Korea, North America, Taiwan

PAL : China, european countries



# How to print pictures

When you want to print out pictures that you have taken with this camera and stored on a card, use one of the following options:

■ Print Reserve (P. 169) — for printing at a photo lab that supports DPOF or for printing on a DPOF compatible printer

Apply Print Reserve to your pictures. This allows you to add printing data (number of prints, date printed on pictures, etc.) to the pictures you have stored.

#### • What is DPOF?

DPOF is short for Digital Print Order Format. DPOF is a format used to record automatic print information from cameras. By specifying which images are to be printed, the images can be printed easily by DPOF-compatible printing service labs or a personal DPOF-compatible printer.

- Printing on an Olympus CAMEDIA P-400, P-330N(E) or P-200 digital printer:
  - If you insert a card with Print Reserve data into the printer, printing is possible without using a computer. For more details, refer to the printer's instructions.
- Transferring pictures to a computer and printing them from a printer connected to the computer:

If your computer has software applications installed that support JPEG images (Internet browsers, Paint software, etc.), you can print out your pictures on a printer connected to the computer. CAMEDIA Master software also enables printing. Print Reserve is not available.

Also refer to the application software's instructions.



#### Picture size and printing

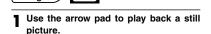
The resolution of a computer/printer is generally based on the number of dots (pixels) per square inch. This is called "dpi" (dots per inch). The higher the dpi value, the higher the resolution, and the better the printed results. Keep in mind, however, that the dpi of the picture you want to print does not change to match the printer resolution. This means that when you print an image with a lower resolution than the printer, the size of the printed picture will be smaller. Although you can print magnified images, picture quality will decrease. If you want to be able to print large, high-quality pictures, set the picture size in the camera as high as possible (higher record mode) (P. 102).

### ····· Note ···

- Images taken with this camera can also be printed using a printer or at a photo lab that supports the Design rule for Camera File system/DCF.
- DPOF reservations set by another device cannot be changed by this camera. Make changes using the original device.
- If a card contains DPOF reservations set by another device, entering reservations using this camera may overwrite the previous reservations.
- Even if an image appears with the message "PICTURE ERROR", Print reserve may be performed on it. In such a case, the print reserve icon (□) does not appear where an image is displayed for full view. Since □ appears where multiple images are displayed (index-display mode), it is possible to confirm the print reserve status.
- This camera cannot be directly connected to printers such as the Olympus P-300 digital printer.
- $\bullet$  Not all functions may be available on all printers or at all photo labs.
- Only the first 999 images can be printed on the P-330N(E) printer.
- Some TIFF images may not be printed.
- Print reserve may take considerable time in some cases.
- Print reserve cannot be performed when using a card with a write-protect seal.

### All-frame Print Reserve



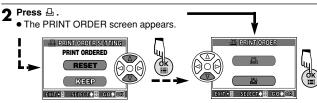


Mode dial

setting

You cannot use Print reserve on pictures
 with

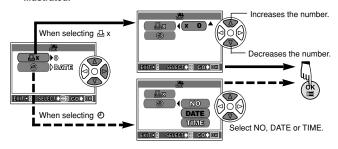




If Print Reserve data is already stored on the card, the PRINT ORDER SETTING screen appears giving you the choice of resetting the data or keeping it (P. 176).

Select 🖺 .

3 Press △ or ▽ to select ຝ x (number of prints) or ② (date/time), then press ▷ to go to the setting. Perform each setting as illustrated.



- 4 After all settings are complete, press 

  .
  - The top menu appears.
- 5 Press (a) to exit from the top menu.
  - The screen exits from the Print Reserve mode.
  - The playback mode is restored and the Print Reserve mark and number of prints are displayed.

# Single-frame print reserve



Mode dial setting

- Use the arrow pad to play back a still picture.

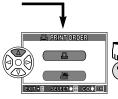




• The PRINT ORDER screen appears.



If Print Reserve data is already stored on the card, the PRINT ORDER SETTING screen appears giving you the choice of resetting the data or keeping it (P. 176).



Select ₾.

- 3 Select a frame you want to print. Press
  - The menu appears.



When selecting a frame for Print Reserve

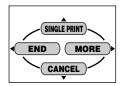
Select an appropriate Print reserve setting (see below) using the arrow pad.

**MORE:** Sets the number of prints, date/time and trim size. → Go to Step 5.

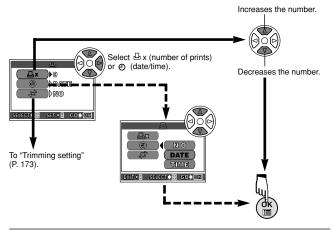
**SINGLE PRINT:** Sets single-frame print and the date. Trimming setting is not available. → Go to Step 6.

**CANCEL:** Cancels the Print reserve. → Go to Step 6.

**END:** Completes the Print reserve. → Go to Step 7.



- 5 In the ⊡ screen, set ⊡ x (number of prints), ⊕ (date/time) and ♯ (trimming). When setting is complete, press ⑥.
  - A picture is played back.



- $\mbox{\bf 6}$  Press  $\mbox{\bf @}$  to display the top menu again (as in Step 4). Press  $\mbox{\bf <} \mbox{\bf 1}$  to select END.
  - The PRINT ORDER screen appears.
  - To perform Print Reserve for more pictures, repeat steps 3 − 6.
- **7** Press < repeatedly until the PRINT ORDER screen disappears.
  - The top menu appears.
- R Press (a) to exit the top menu.

# **Trimming setting**



It is possible to enlarge a part of a recorded picture and to print out the enlarged section only.

Do steps 1 − 5 of "Single-frame print reserve". In step 5, select 

(P. 170 − 172).



If  $\protect\$  has been set already, the  $\protect\$  screen appears. Select RESET and press  $\protect\$  .

If you select OK or CANCEL, then press
 ⑥ , the screen returns to the ☐ screen, which is displayed in step 5 on P. 172.

To save the current trimming size → OK
To set a new trimming size → RESET
(Go to step 2.)

To cancel the trimming size → CANCEL



2 The trim screen appears. Set the top left corner point of the desired picture. Move the corner point of the trimming frame using the zoom lever.

Move the zoom lever towards W. The corner point of the trimming frame moves towards the top left corner of the display.





Move the zoom lever towards T. The corner point of the trimming frame moves towards the bottom right corner of the display.

Press the arrow pad to move the trimming frame. Press the arrow corresponding to the direction you want to move. If the trimming frame has reached the trimming limit, the corresponding arrow is not displayed.

- 3 Press ® to save the top left corner point.
- 4 Set the bottom right corner point using the zoom lever as described in step 2. Press ® to save the bottom right corner point.
  - The trimming size is displayed for approx. 1 second.



Press the arrow pad to move the trimming frame. Press the arrow corresponding to the direction you want to move. If the trimming frame has reached the trimming limit, the corresponding arrow is not displayed.

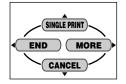


- 5 Select OK on the # screen, which is displayed in step 1.
  - The screen returns to the 
     □ screen.



- 6 To complete setting, press 🟐 twice.
- **7** Press < 1 to select END.

   The PRINT ORDER screen appears.



- Press < repeatedly until the PRINT ORDER screen disappears.

   The top menu appears.
- Press (a) to exit from the top menu.

···· • Note ·····

- The size of the printed picture varies depending on the printer setting. If the trimmed picture size is small, printing magnification increases accordingly, resulting in a printed picture with lower resolution.
- For best results with close-up prints, it is recommended to use the TIFF, SHQ or HQ mode.
- The vertical to horizontal ratio in the trimming screen can be changed using the arrow pad, but if the zoom lever is used, the ratio is fixed at 4:3.If images recorded in 3:2 are trimmed, the ratio is also fixed at 4:3.

# **Resetting Print Reserve**

Allows you to reset all Print Reserve settings for pictures stored on a card.

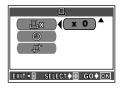
Mode dial setting

- Use the arrow pad to play back a still picture.
  - You cannot use Print reserve on pictures with \( \mathbb{P} \) .
- Press 

  to display the PRINT ORDER SETTING screen.
  - If Print Reserve data is NOT stored on the card, the PRINT ORDER SETTING screen does not appear.
- 3 Select RESET.



- Remove selected pictures only
- Select KEEP, then set the number of prints to 0 on the 
  ☐ (single-frame print reserve) screen. → See Step 2 - 4 of "Single-frame print reserve" (P. 170, 171)



**4** Press *≤* to return to the top menu. Press **®** to exit from the top menu.

### **External flash**

#### Using the FL-40 external flash

Various types of flash shooting are possible with the FL-40 external flash, which can be used either by itself or together with the main flash.

If the FL-40 is used, flash mode and exposure compensation will be detected automatically by the camera, allowing the main flash and external flash to function together.

Using the two flashes together allows for more sophisticated lighting, such as catch lighting.

To connect the FL-40 to the camera, the exclusive FL-BK01 flash bracket (optional) and FL-CB01 bracket cable (optional) are required.



- Mount the FL-40 external flash on the flash bracket, then fasten it to the camera's tripod socket and connect the flash bracket and the camera's 5-pin external flash socket using the bracket cable.
  - Refer to each separate instruction manual for the external flash, flash bracket, and flash cable.
  - The 5-pin external flash socket cover on the camera is threaded. Unscrew and remove it before connecting the bracket cable.
- 2 In the top menu, select MODE MENU

  → CAMERA → FLASH.

To use the external flash only

→ Select <sup>3</sup>√3, then press <sup>(2)</sup> (3).

To use the external flash together with the main flash

- → Select IN+ <sup>3</sup>\(\overline{1}\), then press ((a)).
- "How to use the menu" (P. 39)
- Press (3) again to cancel the menu.



5-pin external flash socket



#### Turn on the external flash.

- The mode for the external flash is TTL-AUTO.
- When the shutter button is pressed halfway, the external flash begins communicating with the camera and automatically switches to TTL-AUTO.
- 4 Press the \$ (flash mode) button to select the camera's flash mode (P. 78).



# **⊘** Note ……

- If close-up pictures are overexposed, try using the main flash by itself.
- When the main flash and the FL-40 are used together, the main flash is used as the compensating light source. This means that if the amount of light from the FL-40 is insufficient (beyond its working range), the resulting pictures may be underexposed.

### Using commercially available external flashes

External flashes (commercially available) can also be used with the exclusive FL-BK01 (optional) and FL-CB01 bracket cable (optional) when the camera's mode dial is set to A/S/M/ 🖼 .

For details on compatible commercially available external flashes, refer to the next page.

Mode dial setting

A/S/M/My

Mount an external flash on the flash bracket, then fasten it to the camera's tripod socket and connect the flash bracket and the camera's 5-pin external flash socket using the bracket cable.



- 2 Select M from "A/S/M/ m mode setting" (P. 48). Adjust the shutter speed and the aperture (P. 55).
  - Remember that a slow shutter speed can produce blurred images. For the best results, we recommend that you set the shutter speed from 1/200 to 1/300 seconds
- 3 Turn on the external flash.
- 4 Set the mode that automatically controls the amount of light emitted by the external flash. Also set ISO and aperture on the external flash to match the camera's settings.
  - See the user's manual for the external flash to select its modes

### ···· Note ····

- Confirm in advance that the external flash you are using is synchronized with the camera.

#### Compatible commercially available external flashes

When selecting an external flash, use products which meet the following basic conditions.

- (1) Some flashes available on the market operate with a high voltage synchro terminal. If one of these is used, it may damage the camera, and/or the camera may not function normally. Contact the manufacturer of the flash you are using concerning the specifications of the flash's synchro terminal.
- (2) Some flashes available on the market have the polarity of the synchro terminal reversed. In this case, even if the flash is connected, it will not fire. Contact the manufacturer of the flash for more information.
- (3) Exposures when using an external flash require that adjustments be made on the external flash unit.
  - If an external flash is used in the Auto mode, match it with the F value and ISO sensitivity settings on the camera.
- (4) Even if the auto F value and ISO sensitivity of the external flash are set to the same conditions as those on the camera, depending on the photographic conditions, it is possible that the correct exposure may not be obtained anyway. In such a case, adjust the auto F value or ISO value on external flash unit or calculate the distance in the manual mode and use it that way. However, generally, the auto F value and ISO value can only be adjusted 1 step and beyond that, exposure compensation cannot be made. (Exposure compensation in the camera is made invalid in external flash photography.)
- (5) Use a flash which is capable of covering an illumination angle for a 32 mm or larger lens when calculated for 35 mm film. However, in close-up photography with the lens on the wide setting, the bottom of the image may not expose correctly. The ideal is to have a wide angle adapter to fit on the flash and spread the illumination angle so it is wider.
- (6) Use a flash unit with a flash time of 1/200 sec. or less when using the flash at full strength. For devices with a long flash time, such as a ring flash, a portion of the light emitted will not contribute to the exposure.
- (7) If a flash unit or other accessory with additional communications functions other than the FL-40 is used, it may not only fail to function normally, but may also cause damage to the camera's circuitry. Do not use such a device.

## Troubleshooting

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE		
The camera does not tu	rn on or function buttons do not	respond.		
① The batteries are exhausted.	Replace the batteries with new ones.	P. 19		
② The power is off.	Set the mode dial to any position except OFF to turn on the power.	P. 25		
③ The batteries are loaded incorrectly.	<ol> <li>Reload the batteries correctly.</li> </ol>	P. 19		
The batteries are temporarily unable to function.	The batteries may be too cold. Warm them before use by allowing them to return to room temperature, or if outdoors, putting them in an inner jacket pocket.	-		
⑤ It is connected to a personal computer.	The camera will not operate while it is connected to a personal computer.	_		
The camera is in the sleep mode.	Operate the camera (press the shutter button, turn the mode dial, etc.)	P. 25		
The green lamp and orange lamp blink at the same time.				
The batteries are exhausted.	Replace the batteries with new ones.	P. 19		
The monitor does not turn on.				
① The camera is in the sleep mode.	Operate the camera (press the shutter button, turn the mode dial, etc.)	P. 25		

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE		
No picture is taken when the shutter button is pressed.				
① The mode dial is set to	Set the mode dial to any position except  ■ .	P. 47		
② The memory gauge is full.	Wait until there is room in the memory gauge.	P. 16		
③ The flash has not finished charging.	Remove your finger from the shutter button and wait until the orange lamp stops blinking. Take your shot again.	P. 78		
The card access lamp blinks after shooting in the mode.	The recorded movie image data is being written to the card. You can start shooting again when the card access lamp stops blinking.	P. 72		
⑤ There is a problem with the card.	6 See the error code chart.	P. 189		
The card is full.	© Erase unwanted pictures or insert a new card. Before erasing, download important images to a PC.	P. 137		
<ol> <li>The batteries ran out of power.</li> </ol>	Replace the batteries with new ones.	P.19		
The monitor indications disappear, or only the battery check lights up.	Replace the batteries with new ones. (Do not open the battery compartment cover when the card access lamp is blinking.)	P. 19		
A write-protect     adhesive seal is placed     on the card or there is     no card in the camera.	Insert a new card in the camera.	P. 24		

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE			
The date record	The date recorded with the image data is wrong.				
The date is not set.      The camera has been	<ul><li>Set the date. The clock adjustment is not factory- preset.</li><li>Set the date again.</li></ul>	P. 27			
left for too long with the batteries removed and the date/time setting was canceled.	<b>.</b>				
Your customiz	ed settings have been canceled.				
You turned off the power without saving the settings.	Set ALL RESET to OFF.	P. 143			
Th	e flash does not fire.				
① The flash is set to the off mode.	Press to select a flash mode other than   .	P. 78			
② The subject is lighted.	② Set the flash to Fill-In mode.	P. 75			
③ Sequential shooting is on.	Set the drive mode to      (single-frame shooting).	P. 92			
You are recording movies.	◆ Select a shooting mode other than   ★★★	P. 47			
<ul><li>⑤ Panorama shooting is set.</li></ul>	6 Cancel the Panorama mode.	P. 96			
FUNCTION is set to     BLACK/WHITE     BOARD.	Set FUNCTION to OFF.	P. 100			

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE	
Pictures you have alrea	ady taken do not appear on the n	nonitor.	
The camera is in the shooting mode.	lacktriangle Set the mode dial to $lacktriangle$ .	P. 117	
② There is no picture on the card.	NO PICTURE appears on the monitor. Record pictures.	P. 32, 33, 190	
3 There is a problem with the card.	3 See the error code chart.	P. 189	
The camera is connected to a TV.	The monitor does not function when the camera is connected to a TV.	P. 140	
The view	finder display is not clear.		
The diopter is not adjusted properly.	Adjust the diopter again.	P. 31	
The	monitor is not clear.		
The brightness is not adjusted properly.	Adjust the brightness.	P. 156	
② The monitor is exposed to direct sunlight.	② Block the sunlight or move out of the sunlight.	_	
Picture rotate, Picture protect, Single-frame erase, All-frame erase, Print reserve and Card formatting cannot be performed.			
A write-protect     adhesive seal is affixed     to the card.	Use the card after peeling off the seal. Do not reuse the write protect seal.	P. 23	

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE		
The subject's eyes appear red in pictures recorded with the flash.				
① The flash is in the auto- flash mode.	↑ This "red-eye phenomenon" occurs with all cameras when a flash is used. It is caused by light from the flash reflecting off the retina at the back of the eye. Red-eye varies depending on the individual and the shooting conditions such as ambient lighting. Use of the Red-eye reduction mode significantly reduces this phenomenon.	P. 75		
The	picture is out of focus.			
The camera moved when the shutter button was pressed.	Hold the camera correctly, and press the shutter button.	P. 31, 57		
② The AF target mark was not on the subject.	Position the AF target mark on the subject, or use the focus lock.	P. 58, 59		
③ The lens is dirty.	Clean the lens with a soft dry cloth.	P. 188		
The shutter button was pressed while standing in front of the camera in the self-timer mode.	Press the shutter button while looking into the viewfinder, not while standing in front of the camera.	P. 91		
The manual focus was used with the wrong focal distance.	Use the right manual focus for the distance.	P. 63		

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE		
The picture is too bright.				
The flash mode was set to the Fill-in flash mode.	Select a flash mode other than the Fill-in flash mode.	P. 78		
① The subject was excessively illuminated.	Adjust the exposure compensation or change the camera position toward the subject.	P. 108		
The	e picture is too dark.			
① The flash was blocked by a finger.	• Hold the camera correctly, keeping your fingers away from the flash.	P. 31		
② The subject was out of the working range of the flash.	Shoot within the flash working range.	P. 79		
3 The flash mode was set to the Off mode.	Press \$ to select a flash mode other than   .	P. 78		
The subject was too small and was backlit.	Set the flash to Fill-In mode. Or, use the spot metering mode.	P. 75 P. 82		
⑤ The sequential mode was used.	G Higher shutter speeds are used when the sequential mode is selected which may result in pictures that are darker than usual.	P. 92		
The colors of pictures taken indoors look unnatural.				
Indoor lighting can     affect the picture's     colors.	Set the white balance according to the lighting.	P. 110		
② There is no white in the subject.	Try to include something white in the picture or shoot using the Fill-in flash mode.	P. 75		
③ The white balance setting is wrong.	Adjust the white balance to the light source.	P. 110		

POSSIBLE CAUSES	CORRECTIVE ACTION	REF. PAGE			
The picture has obscured edge(s).					
The lens was partly blocked by a finger or the strap.	Hold the camera correctly, keeping your fingers and the strap away from the lens.	P. 31			
Halation produc	ces unnatural colors in a picture.				
① Excessively bright ultraviolet light on the subject, such as sunlight shining through the leaves of trees, window frames in bright light at night, reflection of metals under direct sunlight, etc.	Process the pictures using a graphics application that supports JPEG (Paint Shop Pro, Photoshop, etc.). For example, after picking up unnatural colors with a syringe tool, etc., you can select color areas, and try color conversion or saturation adjustment. For details, refer to the manual of the graphics application you are using.	-			
No picture displayed	No picture displayed on TV when connecting to the camera.				
① The video output signal is incorrect.	<ul> <li>Set the video output signal correctly according to your region.</li> </ul>	P. 166			
The mode dial is set incorrectly.     Your TV's video signal	② Set the mode dial to 🖭 . ③ Set the TV to the video input	P. 117 P. 140			
is incorrect.	mode.				

#### **User maintenance**

#### After use

Turn off the power and attach the lens cap to the lens.

#### Cleaning the camera

- Turn off the camera. (P. 25)
- 2 Remove the batteries (P. 19). When using an AC adapter, unplug the AC adapter from the camera and the AC outlet.

#### 2 Exterior:

Wipe gently with a soft cloth. To wipe off heavy dirt, soak the cloth in diluted mild soap and wring it well. Wipe off the camera with the damp cloth and then dry it with a dry cloth. If you have used your camera at the beach, use a cloth dampened with fresh water.

#### Monitor and viewfinder:

Wipe gently with a soft cloth.

Lens:

Blow dust off the lens with a blower brush (commercially available), then wipe gently with lens cleaning paper.

#### Card:

Wipe gently with a soft cloth.

#### 

- Do not use a strong solvent such as benzine or alcohol, or chemically treated cloth.
- Cleaning should be done only after the batteries have been removed or other power supply units have been disconnected.
- Mold may form on the lens surface if the lens is left dirty.

### **Error codes**

If there is a problem with your camera, a blinking error code will appear.

Monitor indications	Possible causes	Corrective action
NO CARD	The card is not inserted, or it cannot be recognized.	Insert a card correctly or insert a different card.
CARD FULL	No more pictures can be taken.	Replace the card or erase unwanted pictures.
WRITE-PROTECT	Writing to the card is prohibited.	Remove the write-protect adhesive seal attached to the card.
CARD ERROR	Cannot record, play back or erase pictures on this card.	If the card is dirty, wipe the gold contacts with a clean tissue and insert it again. If the problem is still not corrected, the card cannot be used.
PICTURE ERROR	The recorded image cannot be played back with this camera.	Download the image to a personal computer and use image processing software to view it. If that cannot be done, the image file is damaged.

Monitor indications	Possible causes	Corrective action
OARDISETUP (POWER OFF)  (B. FORMAT)  SELECTIFE COT (CC)	The card is not formatted.	Format the card.
NO PICTURE	There are no pictures on the card, so there is nothing to play back.	Insert a card that contains images.
CARD FULL	There is no empty space on the card, so it cannot record new information such as print data.	Replace the card or erase unneeded pictures.
CARD-COVER OPEN	The card cover is open.	Close the card cover.
BATTERY EMPTY	The battery is dead. The camera stops working. The green lamp and orange lamp blink at the same time.	Install either new or freshly charged batteries.
Other indications	Consult your nearest Olympus dealer or customer support department (see back cover).	

## Menu maps

#### P mode

Top menu	Tab		Setting
MODE MENU —	T-CAMERA T	- 🖒 (P. 91)	- OFF, ON - □, □, aF□, BKT (±0.3/±0.7/
		— DRIVE (P. 92) ————	- □, □, AF□, BKT (±0.3/±0.7/
		LOC (D.407)	- ±1.0, x3/x5)
	1	— ISO (P. 107) ————————————————————————————————————	- AUTO, 100, 200, 400
	[	— [ <u>#2]</u> (P. 81) ———————————————————————————————————	2.0 - +2.0 - INLES =5
	[	— <b>5</b> SLOW (P.76) ————	4910W1 @4910W 4910W2
	1	— NOISE REDUCTION (P. 116)-	OFF, ON
	l	— MULTI METERING (P. 83) —	- OFF. ON
	-	- Digital Zoom (p. 74)	· OFF, ON
		— FULLTIME AF (P. 61)	· OFF, ON
	I L	AF MODE (P 60)	. iESP SPOT
		- (P. 90)	- UFF, ON
		— PANORAMA (P. 96) — 2 IN 1 (P. 98)	
	[	— FUNCTION (P 100)	OFF BLACK&WHITE SEPIA
		. 511511511 (1.100)	OFF, BLACK&WHITE, SEPIA, WHITE BOARD, BLACK BOARD
	1	— ΔΕ ΔΒΕΔ (P 62)	
	-	— INFO (P. 155)	· OFF, ON
		— INFO (P. 155) — — — (P. 157) — — — (P. 102) — — — — — — — — — — — — — — — — — — —	- OFF, ON
	PICTURE T	— <⊪ (P. 102) —	
			3:2 2288 x 1520, 2048 x 1536,
			1600 x 1200, 1280 x 960, 1024 x 768, 640 x 480)
			SHQ (2288 x 1712,
			3:2 2288 x 1520.
			ENLARGE SIZE 3200 x 2400)
			HQ (2288 x 1712,
			3:2 2288 x 1520,
			ENLARGE SIZE 3200 x 2400)
			SQ1(2048 x 1536, 1600 x 1200,
			1280 x 960, HIGH/NORMAL)
			SQ2(1024 x 768, 640 x 480,
		W/P (P 100)	HIGH/NORMAL)
	l [	— WB (P. 109)	- AUTO, PRESET ( 🌣 , 💪 , 🞝 , - ∺ , 芫₂ , 芫₃ ), 💂
	L	— WB½ (P. 112) —	· -7.0 - +7
		— SHARPNESS (P. 113) ———	5.0 - +5
	-	— CONTRAST (P. 114) ———	· -5.0 - +5
		— CONTRAST (P. 114)	· -5.0 - +5
	└─ CARD ──	— CARD SETUP (P. 139) ———	· YES, NO
To the next page			

To the next page

#### P mode (cont.)

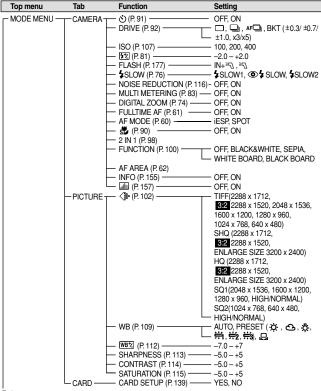
Top menu	Tab	Function	Setting
MODE MENU —	- SETUP -		- OFF, ON - ENGLISH, DEUTSCH, FRANÇAIS, - ESPAÑOL
		- PW ON SETUP (P. 159) - PW OFF SETUP (P. 159)	- OFF, 1, 2
		- <b>■))</b> (P. 156)	- OFF, ON - OFF, LOW, HIGH
		- MY MODE SETUP (P. 151)	- CURRENT (SET, CANCEL), RESET (ALL RESET, CANCEL), CUSTOM*2, MM 1/MM 2/MM 3/ - MM 4
		- FILE NAME (P. 162) - PIXEL MAPPING (P. 164)	- RESET, AUTO
		- [□] (P. 156) ————————————————————————————————————	+
		- VIDÈO OUT (P. 166)	- m, ft - NTSC, PAL
		- SHORT CUT (P. 148)	A/B, all items included in the CAMERA tab (except AF AREA) and all items included in the     PICTURE tab
	L	- CUSTOM BUTTON - (P. 145)	- Ĉ VIRTUAL DIAL, AE LOCK, S), DRIVE, ISO, ™ FLASH, S SLOW, NOISE REDUCTION, DIGITAL ZOOM, FULLTIME AF, AF MODE, ₩, FUNCTION, INFO, , ⟨№,
(P. 91)			- WB - OFF, ON
(P. 102)			- Same settings as 🐌 on the previous page.
L DRIVE (P. 92)			<ul> <li>Same settings as DRIVE on the previous page.</li> </ul>

<sup>\*1</sup> Available languages vary depending on the area where you purchased this camera.

<sup>\*2</sup> For CUSTOM settings, refer to "Available items and factory default settings" on P. 154.

Chapter 1

#### ● A/S/M/ My mode



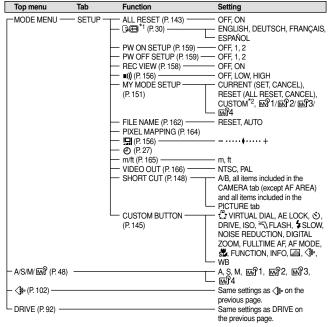
To the next page

#### Note

When you use the 
 mode (which is set to the P mode), the MODE MENU consists of the items listed in the P menu maps. Refer to the menu maps on P. 191.

<sup>\*</sup> Not available in the M mode.

#### ● A/S/M/ My mode (Cont.)



<sup>\*1</sup> Available languages vary depending on the area where you purchased this camera.

#### Note

 When you use the mode (which is set to the P mode), the MODE MENU consists of the items listed in the P menu maps. Refer to the menu maps on P. 191.

<sup>\*2</sup> For CUSTOM settings, refer to "Available items and factory default settings" on P. 154.

#### ● 🐧 / 🔛 / 🖢 / 🏊 / 😭 / 🗞 mode

Top menu	Tab	Franctica.	Setting
Top menu  MODE MENU	Tab  CAMERA	Function S (P. 91) DRIVE (P. 92)  ISO (P. 107) F2 (P. 81) FLASH (P. 177) FLASH (P. 177) MULTI METERING (P. 83) DIGITAL ZOOM* (P. 74) FULLTIME AF (P. 61) AF MODE (P. 60) PANORAMA* (P. 96) 2 IN 1 (P. 98) FUNCTION (P. 100)  AF AREA (P. 62) INFO (P. 155)  IIII (P. 157)  R (P. 102)	OFF, ON  - □, AF□, AF□, BKT (±0.3/±0.7/ ±1.0, x3/x5)  - AUTO, 100, 200, 400  - 2.0 - ±2.0  - IN+F F F\  - \$SLOW1,  \$\frac{1}{2}\$\$ \$\$\$\$ \$
		— ₩ <u>₽</u> ½ (P. 112) —— SHARPNESS (P. 113) —— CONTRAST (P. 114) —— SATURATION (P. 115) —— CARD SETUP (P. 139)	7.0 - +7 5.0 - +5 5.0 - +5 5.0 - +5

To the next page

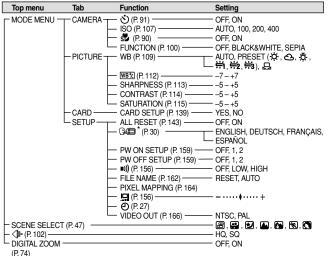
<sup>\*</sup> Not available in the R mode.

#### ● 🔊 / 🔛 / 🐿 / 🖍 / 🗞 mode (cont.)

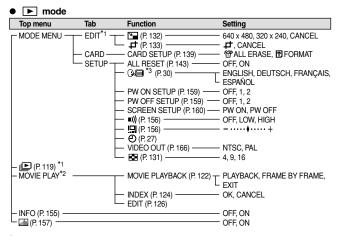
Top menu	Tab	Function	Setting
- SCENE SELECT (P.	SETUP	ALL RESET (P. 143)  - Q = *1 (P. 30)  - PW ON SETUP (P. 159) - PW OFF SETUP (P. 159) - REC VIEW (P. 158) - III) (P. 156) - MY MODE SETUP - (P. 151)  - FILE NAME (P. 162) - PIXEL MAPPING (P. 164) - III (P. 156) - (P. 27) - mft (P. 165)	OFF, ON ENGLISH, DEUTSCH, FRANÇAIS, ESPAÑOL OFF, 1, 2 O
- <∄ (P. 102)	,		Same settings as In on the previous page.
L DRIVE (P. 92)			Same settings as DRIVE on the previous page.

<sup>\*1</sup> Available languages vary depending on the area where you purchased this camera.

<sup>\*2</sup> For CUSTOM settings, refer to "Available items and factory default settings" on P. 154.



<sup>\*</sup> Available languages vary depending on the area where you purchased this camera.



<sup>\*1</sup> Not displayed during movie playback.

<sup>\*2</sup> Not displayed during still picture playback.

<sup>\*3</sup> Available languages vary depending on the area where you purchased this camera.

## Menu functions & factory default settings

Mode	Р	АЅМ № 3*		<b>B</b>	<b>•</b>
Function	-	AOW w			
SCENE SELECT					
A/S/M/ 🖼	– A			-	
<b>৩</b>	OFF				ı
DRIVE				-	-
ISO	AUTO 100 AUTO		)	_	
52		±0	•	_	
FLASH		±0		-	-
\$ SLOW		\$ SLOW1		-	-
NOISE REDUCTION	OFF (Always set to ON in 😥 .)		-		
MULTI METERING	OFF (This function is not available in M.)		-	-	
DIGITAL ZOOM	OFF		OFF (This function is not available in 🔐 .)	OFF	-
FULLTIME AF	OFF			-	-
AF MODE	iESP			-	51
s#	OFF				_
FUNCTION	OFF				-
AF AREA	Center of the image				
INFO		OFF		-	OFF
		OFF		-	OFF
<b>1</b> 10		HQ (2288 x 17	12)	HQ (320 x 240)	-

When "-" appears in a mode column, it means that the corresponding function is not available in that mode or cannot be set in that mode. Some function settings are automatically determined by the settings selected in other modes.

<sup>\*</sup> Factory default settings differ depending on which shooting mode is selected. See the P, A, S, M, S-Prg ( , D, , D, , D, , S, , S) column.

Mode					
Function	P	ASM ™3*		<b>2</b>	▶
WB	А	AUTO (when selecting PRESET: \$\dot{\psi} )			-
WB½		± (	 )	-	-
SHARPNESS		±	0		-
CONTRAST		±	0		-
SATURATION		±	0		-
<b>-</b>		-			640 x 480
ALL RESET			ON		,
C4⊞			ENGLISH		
PW ON SETUP			1		
PW OFF SETUP			1		
REC VIEW		ON		-	-
<b>■1))</b>			HIGH		
MY MODE SETUP		CURRENT		-	-
FILE NAME		RES	ET		-
<u>!</u>			±0		
Ð		YM	1 D/2002/1/1		
m/ft		m		-	_
VIDEO OUT		r PAL (Factory def ou purchased this		nds on the	region
SHORT CUT	A: 🗱 _ B: DRIVE		_		
CUSTOM BUTTON		🗘 VIRTUAL D	IAL	-	_
<b>8</b> 8		_			9

- When "-" appears in a mode column, it means that the corresponding function is not available in that mode or cannot be set in that mode. Some function settings are automatically determined by the settings selected in other modes.
- \* Factory default settings differ depending on which shooting mode is selected. See the P, A, S, M, S-Prq ( , D , D , D , D , S , S ) column.



### **Modes & Shooting functions**

$\setminus$	Mode	Р	ASM ™*		æ
Fu	ınction	Г	A S W LOS		
Takir	ng still pictures	√	√	√	-
Reco	ording movies	-	-	-	√
A/S/I setti	M/™ mode ng	-	√	-	-
S-Prg	mode setting	-	-	✓	√
Aper	ture value ng	-	√	-	-
Aper	ture priority sting	ı	√	-	ı
Shut	ter speed setting	-	√	-	-
Shut	ter priority ting	ı	√	-	-
Manı	ual shooting	-	√	-	-
"Му	Mode" setting	√	√	✓	-
"Му	Mode" shooting	-	_	-	-
Zoor	n	√	√	$\checkmark$ (not available in $ extbf{ extbf{ extit{C}}} extbf{ extit{1}} extbf{ extit{2}} extbf{ extit{2}} extbf{ extit{3}}$	√
Digit	al zoom	√	√	$\checkmark$ (not available in $ extbf{3.}$ .)	✓
Auto	focus	√	√	✓	/
Focu	is lock	/	√	✓	_/
	node setting	√	√	✓	-
	ime AF	√	√	√	-
	REA	√	√	√	-
Manı	ual focus	√	√	✓	-
	Auto	√	√	√	-
	Red-eye Reduction	<b>/</b>	√	√	-
چ	Fill-in	√	√	✓	-
Flash	1st Curtain	√	√	√	-
-	2nd Curtain	√	√	√	-
	1st Curtain with Red-eye Reduction	√	√	√	-

<sup>√ :</sup> Available, – : Not available

<sup>\*</sup>Some functions are not available in some modes (A/S/M/)). The shooting mode (), ), (A), (A) or (A) selected in the ) mode also affects availability of some functions. For details, refer to the individual function page.

Mode	Р	ASM M *		m
Function	Р	ASMIM		æ
Flash intensity control	/	√	√	-
Spot metering	√	√	√	_/
Multi metering	_/	√	✓	-
AE lock	√	√	✓	√
Macro shooting	√	√	✓	√
Super macro shooting	√	√	✓	_/
Self-timer shooting	√	√	✓	√
Sequential shooting	√	√	✓	-
AF sequential shooting	✓	√	✓	-
Auto bracketing	√	√	√	-
Panorama shooting	✓	√	√ (not available in 🚇.)	-
2 in 1 shooting	√	√	✓	-
Function shooting	√	√	√	√
Record mode setting	✓	√	✓	√
ISO setting	√	√	√	√
Exposure compensation	✓	√	√	√
Auto white balance	_/	√	✓	/
Preset white balance setting 中,心,恭,	√	√ ·	√	√
One-touch white balance	✓	√	√	√
White balance adjustment	✓	√	√	√
Sharpness setting	√	√	✓	_/

<sup>√:</sup> Available, -: Not available



Mode **АЅМ № 3**\* æ Р Function Contrast setting Saturation setting Noise reduction Available only in 🖭 . Custom button setting Shortcut setting All reset Language selection Beep Rec view Information display Histogram display Power on/off display setting Monitor brightness adjustment File name setting Pixel mapping M/ft setting / \_ Video output

setting

<sup>/ :</sup> Available, - : Not available

<sup>\*</sup>Some functions are not available in some modes (A/S/M/?). The shooting mode (, , , , or ) selected in the ? mode also affects availability of some functions. For details, refer to the individual function page.

## **Specifications**

Product type	Digital camera (for shooting and displaying)		
Recording system Still  Movie	Digital recording, JPEG (in accordance with Design rule for Camera File system (DCF)), TIFF (non-compression), Digital Print Order Format (DPOF) QuickTime Motion JPEG support		
Memory	3V (3.3V) SmartMedia, 4 MB - 128 MB (all cards except 2 MB)		
No. of storable pictures (When a 16 MB card is used)	1 frame (TIFF: 2288x1712) Approx. 5 frames (SHQ: 2288x1712) Approx. 16 frames (HQ: 2288x1712) Approx. 20 frames (SQ1: 2048x1536) Approx. 76 frames (SQ2: 1024x768)		
No. of effective pixels	4,000,000 pixels		
Image pickup device	1/1.8" CCD solid-state image pickup 4,130,000 (gross)		
Recording image resolutions	3200 x 2400 pixels (ENLARGE SIZE: SHQ/HQ) 2288 x 1712 pixels (TIFF/SHQ/HQ) 2288 x 1520 pixels (TIFF/SHQ/HQ) 2048 x 1536 pixels (TIFF/SQ1) 1600 x 1200 pixels (TIFF/SQ1) 1280 x 960 pixels (TIFF/SQ1) 1024 x 768 pixels (TIFF/SQ2) 640 x 480 pixels (TIFF/SQ2)		
Lens	Olympus lens 6.5 mm to 19.5 mm, f2.8, 8 elements in 6 groups (equivalent to 32 mm to 96 mm lens on 35 mm camera)		
Photometric system	Digital ESP metering, Spot metering system		
Aperture	f2.8 to f11		
Shutter speed Still Movie	Used with mechanical shutter 1 to 1/1000 sec. (M mode: 16 to 1/1000 sec.; S mode: 4 to 1/1000 sec.) 1/30 to 1/8000 sec.		
Viewfinder	Optical real image viewfinder		

Monitor	1.8" TFT color LCD display Approx. 114,000 pixels
Battery charging time for flash	Approx. 6 sec. (at normal temperature with new batteries)
Autofocus	TTL system autofocus, Contrast detection system, Focusing range: 2 cm to ∞ (0.7 in to ∞)
Outer connector	DC-IN jack, USB connector (mini-B), VIDEO OUT jack, 5-pin external flash socket
Automatic calendar system	Up to 2099
Operating environment	
Temperature	0°C to 40°C (32°F to104°F) (operation) -20°C to 60°C (- 4°F to 140°F) (storage)
Humidity	30% to 90% (operation) 10% to 90% (storage)
Power supply	For batteries, use 2 CR-V3 lithium battery packs, or 4 AA (R6) NiMH batteries, NiCd batteries, Alkaline batteries or lithium batteries. AC adapter (optional) Manganese (zinc-carbon) batteries cannot be used.
Dimensions (W) X (H) X (D)	110 mm x 76 mm x 77.5 mm (4.3" x 3.0" x 3.1")
Weight	290 g (0.6 lb) (without batteries/card)

SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT ANY NOTICE OR OBLIGATION ON THE PART OF THE MANUFACTURER.

#### **Glossary of terms**

#### A (Aperture Priority) Mode

You set the aperture yourself and the camera automatically varies the shutter speed so that the picture is taken with the best exposure.

#### AE (Automatic Exposure)

The camera's built-in exposure meter automatically sets the exposure. The 3 AE modes available on this camera are P mode, in which the camera selects both the aperture and shutter speed, A mode, in which the user selects the aperture and the camera sets the shutter speed, and S mode, in which the user selects the shutter speed and the camera sets the aperture. In M mode, the user selects both the aperture and the shutter speed.

#### Aperture

The adjustable lens opening which controls the amount of light that enters the camera. The larger the aperture, the shorter the depth of field and the fuzzier the background. The smaller the aperture, the greater the depth of field and the sharper the background. Aperture is measured in f/stops. Larger aperture values indicate smaller apertures, and smaller aperture values indicate larger apertures.

#### Backlight

A light source to illuminate the monitor from behind the screen.

#### CCD (Charge-coupled Device)

This converts light passing through the lens into electrical signals. On this camera, light is picked up at 4,13 million points and converted into RGB signals to build a single image.

#### Contrast Detection Method

This is used to measure the distance to the subject. The camera determines if the image is focused by the level of contrast in the subject.

#### Conventional Photograph

This refers to recording images using silver halide (the method for recording images in conventional, non-digital photography.) This system is in contrast to still video and digital photography.

## DCF (Design rule for Camera File system)

A standard for image files by the Japan Electronics and Information Technology Industries Association (JEITA).

## Digital ESP (Electro-Selective Pattern) light metering

This determines the exposure by metering and calculating the light levels in the center and other areas of the image separately.

## DPOF (Digital Print Order Format)

This is for saving desired print settings on digital cameras. By entering which images to print and the number of copies of each, the user can automatically have the desired images printed by a printer or print lab that supports the DPOF format

#### Eclipsing (Vignetting)

This refers to when an object obscures part of the field of view so that the whole subject is not photographed. Vignetting also refers to when the image seen through the viewfinder does not exactly match the image shot through the objective lens, so the photographed image includes objects not seen through the viewfinder. In addition, vignetting can occur when an incorrect lens hood is used, causing shadowing to appear in the corners of the image.

#### Effective Pixel Resolution

The number of pixels used in the CCD to create the image.

#### EV (Exposure Value)

A system for measuring exposure. EV0 is when the aperture is at F1 and the shutter speed is 1 second. The EV then increases by 1 each time the aperture increases by one F stop or the shutter speed increases by one increment. EV can also be used to indicate brightness and ISO settings.

#### **Exposure**

The amount of light used to capture an image. The exposure is determined by the time the shutter is open (shutter speed) and the amount of light that passes through the lens (aperture).

#### **Gross Pixel Resolution**

The total number of pixels in a CCD. Not all pixels are used to create the image.

#### Flash Bracket

A mount used to attach an external flash to the camera.

#### ISO

A method for indicating film speed by the International Organization for Standardization (ISO) (e.g. "ISO100"). Higher ISO values indicate greater sensitivity to light, so images can be exposed even in low-light conditions.

## JPEG (Joint Photographic Experts Group)

A compression format for color still images. Photographs (images) shot using this camera are recorded onto the SmartMedia card in JPEG format when the Record mode is set to SHQ, HQ or SQ. By downloading these images to a personal computer, users can edit them using graphics application software or view the images using an Internet web browser.

#### M (Manual) Mode

The user sets both the aperture and shutter speed.

#### NTSC (National Television Systems Committee)/PAL (Phase Alternating Line)

Television formats. NTSC is mainly used in Japan, North America and Korea. PAL is mainly used in Europe and China.

#### P (Program) Mode

Also called Program AE mode. The camera automatically sets the best shutter speed and aperture for the shot.

#### **Pixels**

A pixel is the smallest unit (dot) used to make up an image. Clear large-sized printed images require millions of pixels.

#### Ring Flash

A flash unit that uses a circular xenon fluorescent tube as its light source.

#### S (Shutter Priority) Mode

Also called Shutter Priority AE mode. The user selects the shutter speed and the camera automatically varies the aperture so that the picture is taken with the best exposure.

#### Sleep mode

A mode designed to save battery life. The camera automatically enters the sleep mode if you do not operate it for a certain time. To get out of the sleep mode, use any button on the camera (shutter button, arrow pad, etc.).

#### Synchro Terminals

Terminals on an external flash unit for connecting it to the camera.

## TFT (Thin-Film Transistor) Color Monitor

A color Monitor constructed using thin-film technology.

#### TIFF (Tagged Image File Format)

An uncompressed format used for saving highly-detailed black & white or color image data. TIFF image files can be handled by software programs for scanners and graphics applications.

#### TTL (Through-The-Lens) System

To help adjust exposure, a light receptor built into the camera directly measures the light passing through the lens.

#### TTL-AUTO

For use with an external flash. Light emitted by the flash is measured by the light receptor in the camera as it passes through the lens. A signal is then sent to adjust the external flash's intensity.

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## 

#### http://www.olympus.com/

#### OLYMPUS OPTICAL CO., LTD. =

San-Ei Building, 22-2, Nishi Shinjuku 1-chome, Shinjuku-ku, Tokyo, Japan Customer support (Japanese language only): Tel. 0426-42-7499 Tokyo

#### OLYMPUS AMERICA INC. =

Two Corporate Center Drive, Melville, NY 11747-3157, U.S.A. Tel. 631-844-5000

#### **Technical Support (USA)**

24/7 online automated help: http://support.olympusamerica.com/

Phone customer support: Tel. 1-888-553-4448 (Toll-free)

Our phone customer support is available from 8 am to 10 pm (Monday to Friday) ET

E-Mail: distec@olympus.com

E-iviaii: distec@olympus.com

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#### OLYMPUS OPTICAL CO. (EUROPA) GMBH.

Premises/Goods delivery: Wendenstrasse 14-18, 20097 Hamburg, Germany Tel. 040-237730

Letters: Postfach 10 49 08, 20034 Hamburg, Germany

#### Hotline Numbers for customers in Europe:

Tel. 01805-67 10 83 for Germany

Tel. 00800-67 10 83 00 for Austria, Belgium, Denmark, France,

Netherlands, Norway, Sweden, Switzerland,

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Tel. +49 180 5-67 10 83 for Finland, Italy, Luxembourg, Portugal,

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Tel. +49 40-237 73 899 for Greece, Croatia, Hungary, and the rest of

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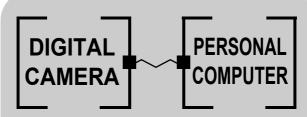
Our Hotline is available from 9 am to 6 pm (Monday to Friday)

E-Mail: di.support@olympus-europa.com

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# CVWEDIV



DIGITAL CAMERA — PC CONNECTION

OPERATION MANUAL

How to use your PC to get the most from images taken with your digital camera.

- Thank you for purchasing an Olympus digital camera.
- This manual provides instructions on how to install the USB driver. To ensure correct installation, refer only to these installation procedures.

#### Introduction

This manual explains in detail how to connect your Olympus digital camera to a computer. Read it carefully and keep it in a safe place for future reference.

#### About this manual

- The information contained in this manual may be subject to change without notice. For the latest information on the product, please consult your local Olympus representative.
- The information contained in this manual has been compiled by taking all
  possible measures to ensure its accuracy. However, if you find any errors or
  incomplete information, please contact your local Olympus representative.
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- The PC screens shown in this manual may differ slightly from the actual displays on some PC models.

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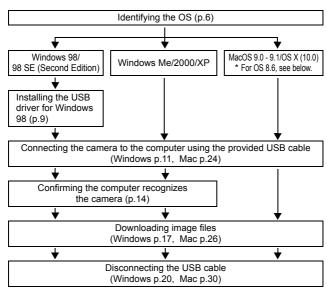
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## **Flowchart**

By connecting the camera to a computer with the provided USB cable, images on a card can be transferred to the computer. Some OS's (operating systems) may need a special setup before connecting to the camera for the first time. Follow the chart below.



- Even if your computer has a USB connector, data transfer may not function correctly if you are using one of the operating systems listed below or if you have an add-on USB connector (extension card, etc.).
- Windows 95/NT 4.0
- Windows 98/98 SE upgrade from Windows 95
- Mac OS 8.6 or lower (except Mac OS 8.6 equipped with USB MASS Storage Support 1.3.5 installed at the factory)
- Data transfer is not guaranteed on a home-built PC system or PCs with no factory installed OS.



- When connecting the camera to the computer, make sure that there is sufficient remaining battery power. When connected (transmitting) to the computer, the camera does not enter the sleep mode nor will the camera's power turn off automatically. Depending on the camera model, when the battery power runs out or the internal temperature rises, the camera may stop operating automatically. This could cause the computer to malfunction, and any image data (file) being transmitted may be lost. Be careful when downloading files for a long period of time. Use the AC adapter (optional) when downloading files.
- If you connect or disconnect the AC adapter when the camera is connected
  to the computer and is running on battery power, it may result in the loss of
  image data on the card or cause a malfunction in the computer. Before
  connecting or disconnecting the AC adapter, disconnect the camera from
  the computer and make sure that the camera is turned off.
- To avoid computer malfunctions, do not turn off the camera when the camera is connected to a computer.
- If the camera is connected to the computer via a USB hub, operation may not be stable if there are any compatibility problems between the computer and the hub. In such cases, do not use the hub and connect the camera directly to the computer.



- You can view images using: graphics applications that support the JPEG file format (Paint Shop Pro, Photoshop, etc.); Internet browsers (Netscape Communicator, Microsoft Internet Explorer, etc.); CAMEDIA Master software; or other software. For details on using commercial graphics applications, refer to their instruction manuals.
- QuickTime is needed for playing back movies. QuickTime is included on the provided software CD.
- If you want to process images, make sure to download them to your computer first. Depending on the software, image files may be destroyed if the images are processed (rotated, etc.) while they are on the card.

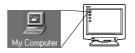
# **Identifying the OS**

Identify the OS on your computer before connecting the camera. How to identify the OS depends on the computer.

### Windows

Double-click the "My Computer" icon on your desktop.

When the "My computer" icon is not on your desktop, click "Control Panel" from the "Start" menu.



2 Double-click the "Control Panel" icon.



3 Double-click the "System" icon.





The way the file icons inside the folder appear may vary depending on your version of Windows. If you don't see the icon you are looking for, click on "view all Control Panel options" on the left of the window.



# A System Properties window will appear. Note and record the "System:" information.

Confirm that your system is Windows 98, 98 SE, Me, 2000 Professional or Windows XP, then press "OK" to close the window



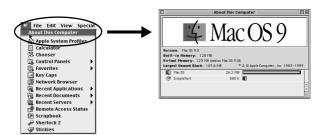
If your OS is Windows 98/98 SE, proceed to "Installing the USB driver for Windows 98" (137 p.9).

Users running Windows Me/2000/XP 137 p.11

Users running other OS 138 p.31

## Mac OS (Macintosh)

Select "About This Computer" from the Apple menu on the menu bar. A window appears with the name of the computer's OS. Confirm that the OS is OS 9.0-9.1 or OS X.



Users running Mac OS 9/X № p.23 Users running other OS № p.31

## **Windows**

# Using Windows 98/Me/2000/XP

#### Make sure that:

- •Your computer is turned on and Windows is running.
- If you are running any applications, quit them all.
- You are recommended to power the camera using the optional AC adapter. If the battery power runs out while the computer is accessing the card in the camera, the camera will turn off in the middle of the operation and this could destroy image files (data). If you are using batteries, make sure that there is sufficient remaining battery power.

Installing the USB driver for Windows 98 (When using Windows 98/98 SE)9
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Confirming the computer recognizes the camera14
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# Installing the USB driver for Windows 98 (When using Windows 98/98 SE)

If your OS is Windows 98/98 SE, you must install the USB driver. Follow the instructions below to install the USB driver in your computer. Once it is fully installed, you do not need to repeat the procedure again.

If your OS is Windows Me/2000/XP, skip the procedure below as the USB driver will be automatically installed. Proceed to "Connecting the camera to the computer" ( ) p.11).

Insert the provided software CD into your CD-ROM drive.



The Olympus Windows Installer should automatically launch. Click "USB driver for Windows 98".



If the installer is not automatically launched, select "Run.." on the "Start" menu and then execute "(drive letter):/ Information.exe".



The drive letter of the CD-ROM varies depending on the computer.

To identify the drive letter, double-click "My Computer" on the desktop.

3 Click "Continue". The installation of the USB driver will start.



4 Click "OK" to restart your computer and the installation is complete.

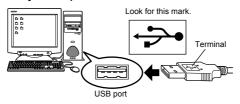


When the computer has restarted, installation is complete. If the Olympus Windows Installer screen appears, click "Close" and remove the CD-ROM from the CD-ROM drive.

# **Connecting the camera to the computer**

Users running Windows 98/98SE need to install the USB drive before connecting the camera to your computer for the first time. (1287 p.9)

Insert the marked end of the provided USB cable into the USB port on your computer as shown below.

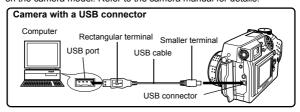


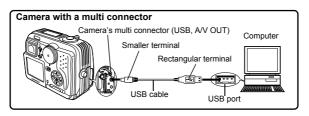


The location of the USB port varies depending on the computer. For details, refer to your computer's manual.

After making sure that the camera is turned off, connect the end of the USB cable to the USB connector on the camera.

The location of the USB connector or multi connector varies depending on the camera model. Refer to the camera manual for details.





## 3 Turn the camera on.

#### Camera with a lens barrier

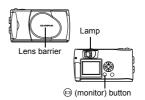
The power turns on automatically, with the exception of some models which require you to press the (a) (monitor) button.

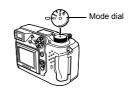
When the camera is turned on, the lamp on the right of the viewfinder lights up.

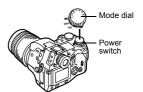
Set the mode dial to 
. (If the camera has a power switch as well as a mode dial, turn the power switch to ON.)

● Camera with a ⋈ mode (Camera setup/connection mode)

Set the mode dial to  $\sim$  to turn the camera on.









### The computer recognizes the camera as a new device.

When you connect the camera to the computer for the first time, the computer automatically recognizes the camera. Click "OK" when the message saying that the installation is completed appears. The computer recognizes the camera as a "Removable Disk".

#### Windows XP

You can download image files from the camera easily. Select "Copy pictures to folder on my computer using Microsoft Scanner and Camera Wizard", then follow the on-screen instructions. You may also select "take no action" to bypass the Microsoft Scanner and Camera Wizard. You may then use a more advanced image viewing/editing program such as Olympus CAMEDIA Master software. For detailed instructions on downloading, refer to the CAMEDIA Master software user's quide.

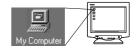


When the camera is connected to the computer, none of the camera button are functional.

## Confirming the computer recognizes the camera

Double-click the "My Computer" icon on the desktop.

For users running Windows XP, click "My Computer" from the "Start" menu.



Make sure the "Removable Disk" icon appears in the window.

There may already be other "Removable Disk" icons for other devices, such as a removable media drive or USB SmartMedia Reader/ Writer. In this case, the digital camera is recognized as another "Removable Disk".

If you cannot find the icon, the camera and computer are not connected properly. Turn the camera off, disconnect the camera from the



computer and connect again, or proceed to "Confirming the USB driver is installed" ( \$\mathbb{E}^{\infty}\$ p.15) to make sure that the USB driver is fully installed.

# **Confirming the USB driver is installed**

If the computer does not recognize the camera as a Removable Disk, follow the procedure below to check whether the USB driver has been fully installed.

1 Open "My Computer" and double-click the "Control Panel" icon. For users running Windows XP, open "Control Panel" from the "Start" menu.



2 Double-click the "System" icon.



3 The System window will appear. Click the "Device Manager" tab.



4

### Confirm that "OLYMPUS Digital Camera" is in the "Universal Serial Bus Controller" category.

If you cannot find the "OLYMPUS

Digital Camera", turn the camera off, disconnect the camera from the computer and start again.
Users running Windows 98/98 SE start again from "Confirming the USB driver is installed", and Users running Window Me/2000/XP start from "Connecting the camera to the





computer".

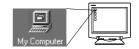
If the USB driver was successfully installed, you can find the following in the "Device Manager".

- the name of the camera you have connected listed under "Disk drives"
- "OLYMPUS Digital Camera" listed as one of the items in the "Universal Serial Bus Controller" category

# **Downloading images to your computer**

Double-click the "My Computer" icon on the desktop.

For users running Windows XP, click "Control Panel" from the "Start" menu.



# 2 Double-click the "Removable Disk" icon.

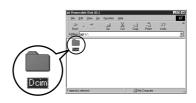
A new "Removable Disk" icon appears when the camera is connected to the computer, as the digital camera is recognized as a "Removable Disk".





If an error message appears when you double-click the icon, there may be a problem with one of the following:

- ① the camera's power source (the AC adapter is not properly connected or the battery power is low)
  - Make sure that the AC adapter is correctly connected or that the batteries are not running low.
- ② the card (there is no card in the camera or there is a problem with the card)
  Check that you can play back pictures stored on the card on the monitor of your digital camera.
- 3 Double-click the "Dcim" folder.



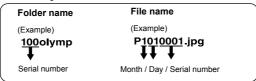
 $m{4}$  Double-click the "100olymp" folder.

Image files (JPEG files) with files names such as "P1010001.jpg" are displayed.



Note

 The camera automatically assigns folder names and file names according to the following rules.



- · Serial numbers of image files run from 0001 to 9999.
- · Serial numbers of folders run from 100 to 999.
- When file number 9999 is reached, a new folder is created and assigned the next number.
- Months January through September are expressed by the numbers 1 through 9, October by the letter A, November by B and December by C.

# 5 Double-click the "My Documents" icon on the desktop.

If you cannot find the icon on the desktop, select "Explorer" on the Start menu and double-click the "My Documents" icon.



The "My Documents" window is displayed.



Drag & drop the image you want to save in the computer (in this case, P1010012.jpg) to the "My Documents" window.

The image is saved in the computer (in My Documents folder).

• To select all files, choose Edit > Select all.



When the image file has been downloaded to the computer, you can view images by double-clicking the image files downloaded to your computer. The files will be opened in the default image viewer of the operating system. If you want to view the image a different size or process it, you will need to open the image with software that supports JPEG or TIFF images files, such as Paint Shop Pro, Photoshop or CAMEDIA Master software.



The lamp on the right of the viewfinder or the card access lamp blinks while the image is being copied. Never open the card cover on the camera, load or remove the batteries, or connect or disconnect the AC adapter while the lamp is blinking as the image files may be destroyed.

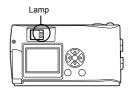
# Disconnecting the camera from your computer

If your OS is Windows Me/2000, proceed to "Windows Me/2000/XP" ( P p.21).

### Windows 98

1 Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

Some camera models have either a lamp on the right of the viewfinder or a card access lamp, and the location varies depending on the model. Refer to your camera's reference manual.



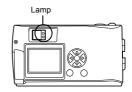
Double-click the "My Computer" icon and right-click the "Removable Disk" to display the menu.



3 Click "Eject" on the menu.



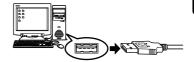
4 Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.



5 Remove the USB cable from the camera.



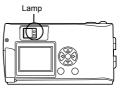
6 Remove the USB cable from your computer.



### Windows Me/2000/XP

Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.
Some camera models have either a

Some camera models have either a lamp on the right of the viewfinder or a card access lamp, and the location varies depending on the model. Refer to your camera's reference manual.



Click the "Unplug or Eject Hardware" icon on the task bar.

The message saying that the drive has been stopped appears.

3 Click on the message. The "Unplug or Eject Hardware" window appears.

4 When a message appears, click "OK".

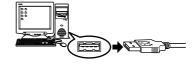




5 Remove the USB cable from the camera.



 $oldsymbol{6}$  Remove the USB cable from your computer.





If the window returns the following message when you click "Unplug or Eject Hardware", first make sure that no image data is being downloaded from the camera, and then remove the USB cable.



## **Macintosh**

# Using Mac OS (9/X)

#### Make sure that:

- Your computer is turned on and Mac OS is running.
- If you are running any applications, guit them all.
- You are recommended to power the camera using the optional AC adapter. If the battery power runs out while the computer is accessing the card in the camera, the camera will turn off in the middle of the operation and this could destroy image files (data). If you are using batteries, make sure that there is sufficient remaining battery power.

If you are running Mac OS X, the connection to the computer and downloading the image data are verified. Restrictions such as the following may occur due to the OS.

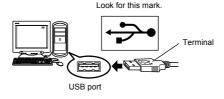
- The image file properties are not displayed correctly.
- Images in the camera cannot be opened without first downloading them, etc.

For more details, visit the Olympus web site.

Connecting the camera to the computer	24
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## **Connecting the camera to the computer**

Insert the marked end of the USB cable into the USB port on your computer as shown below.

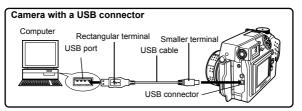


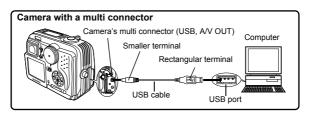


The location of the USB port varies depending on the computer. For details, refer to your computer's manual.

After making sure that the camera is turned off, connect the end of the USB cable to the USB connector on the camera.

The location of the USB connector or multi connector varies depending on the camera model. Refer to the camera manual for details.





## 3 Turn the camera on.

#### Camera with a lens barrier

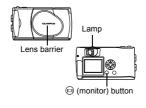
The power turns on automatically, with the exception of some models which require you to press the (a) (monitor) button.

When the camera is turned on, the green lamp on the right of the viewfinder lights up.

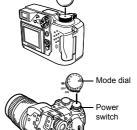
#### 

Set the mode dial to **(I)** (If the camera has a power switch as well as a mode dial, turn the power switch to ON.)

### Camera with a mode (Camera setup/connection mode)



Mode dial





# 4 The computer recognizes the camera as a new device.

The computer recognizes the camera automatically and an "Untitled" icon appears on the desktop.

If you cannot find this icon, turn off the camera and connect again.

#### Mac OS X

When the computer has recognized the camera, the Apple Image Capture software automatically launches. 

© p.29



When the camera is connected to the computer, none of the camera buttons are functional.

## **Downloading images to your computer**

#### Mac OS 9

You can download images from the camera and save them in your computer (in this case, in the Hard Disk).

 Double-click the "Untitled" icon displayed on the desktop when the camera is connected to the computer.





If you cannot find this icon, or if an error message appears when you doubleclick the icon, there may be a problem with one of the following:

- the camera's power source (the AC adapter is not properly connected or the battery power is low)
- ② the card (there is no card in the camera or there is a problem with the card)
  Check that you can play back pictures on the monitor of your camera.
- Ithe USB cable (the camera is not properly connected to the computer by the USB cable).
- ④ Apple "File Exchange" extension is not enabled.
  - Please refer to your Apple operating system manual for instructions on how to enable this extension.

Double-click the "Dcim" folder.



3 Double-click the "1000LYMP" folder.

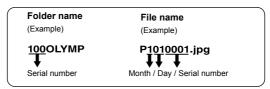


Image files (JPEG files) with files names such as "P1010001.JPG" are displayed.



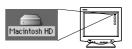


 The camera automatically assigns folder names and file names according to the following rules.



- · Serial numbers of image files run from 0001 to 9999.
- · Serial numbers of folders run from 100 to 999.
- When file number 9999 is reached, a new folder is created and assigned the next number.
- Months January through September are expressed by the numbers 1 through 9, October by the letter A, November by B and December by C.

# 4 Double-click the "Macintosh HD" icon on the desktop.



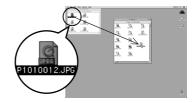
The "Hard Disk" window is displayed.



5 Drag & drop the image you want to save in the computer (in this case, P1010012\_JPG) to the "Hard Disk" window.

> The image is saved in the computer (in the Hard disk).

 To select all images, click Edit > Select all





When the image file has been copied to the computer, you can view images by double-clicking the image files in the "Hard Disk" folder. The files will be opened in the default image viewer of the operating system. If you want to view the image a different size or process it, you will need to open the image with software that supports JPEG or TIFF images files, such as Paint Shop Pro, Photoshop or CAMEDIA Master software.



The lamp on the right of the viewfinder or the card access lamp blinks while the image is being copied. Never open the card cover on the camera, load or remove the batteries, or connect or disconnect the AC adapter while the lamp is blinking as the image files may be destroyed.

## Mac OS X

Malfunctions such as the following may occur due to the OS.

- If the camera is not connected correctly, a malfunction occurs in the computer.
- · Date and time information of image files is not accurately displayed.
- If the card cover of the camera is opened while connecting to the computer, the "untitled" icon does not disappear from the desktop. etc.

When the computer has recognized the camera, the Apple Image Capture software dialog appears.

- 1 From the "Download To" menu, select a destination folder.
- ✓ To download all images, click
  "Download All".

  To selectively download images,
  click "Download Some" and
  highlight the desired images.



The images are transferred from the camera to your computer.



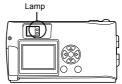
If you are operating Mac OS X and you want to download images using the same procedure as for Mac OS 9, select "File > Close" and exit the Apple Image Capture software. At this time, the camera is indicated as "unlabeled".



If you use the Apple Image Capture software, images downloaded to your computer and transferred back to a card may not play back on the camera or may have other problems.

## Disconnecting the camera from your computer

Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.

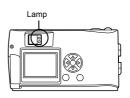


2 Drag the "untitled" icon on the desktop to "Trash".



untitled

3 Make sure that the lamp on the right of the viewfinder or the card access lamp is not blinking.



4 Remove the USB cable from the camera.



5 Remove the USB cable from your computer.

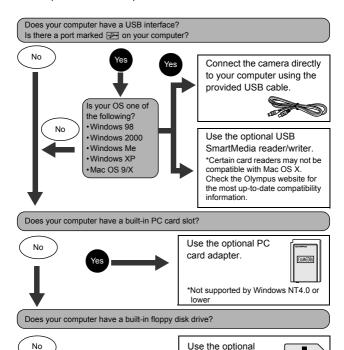


# Downloading image files using other OS (For other OS users)

Users running other OS cannot connect the camera directly to a computer.

#### Windows 95 Windows NT Mac OS before OS 9

You can download images directly to your computer using an optional floppy disk adapter or PC card adapter.



FlashPath floppy disk

adapter.

Consult your nearest Olympus representative.

CAMEDIA

# **OLYMPUS**

http://www.olympus.com/

#### OLYMPUS OPTICAL CO., LTD. =

San-Ei Building, 22-2, Nishi Shinjuku 1-chome, Shinjuku-ku, Tokyo, Japan Customer support (Japanese language only): Tel. 0426-42-7499 Tokyo

#### OLYMPUS AMERICA INC.

Two Corporate Center Drive, Melville, NY 11747-3157, U.S.A. Tel. 631-844-5000

#### Technical Support (USA)

24/7 online automated help: http://support.olympusamerica.com/

Phone customer support: Tel. 1-888-553-4448 (Toll-free)

Our phone customer support is available from 8 am to 10 pm

(Monday to Friday) ET

E-Mail: distec@olympus.com

Olympus software updates can be obtained at: http://olympus.com/digital/

#### Adobe [Photoshop] Support

Adobe software updates and technical information can be obtained at: http://www.adobe.com/support/

### OLYMPUS OPTICAL CO. (EUROPA) GMBH.

Premises/Goods delivery: Wendenstrasse 14-18, 20097 Hamburg, Germany

Tel. 040-237730

Letters: Postfach 10 49 08, 20034 Hamburg, Germany

## Hotline Numbers for customers in Europe:

Tel. 01805-67 10 83 for Germany

Tel. 00800-67 10 83 00 for Austria, Belgium, Denmark, France,

Netherlands, Norway, Sweden, Switzerland,

United Kingdom

Tel. +49 180 5-67 10 83 for Finland, Italy, Luxembourg, Portugal,

Spain, Czech Republic

Tel. +49 40-237 73 899 for Greece, Croatia, Hungary, and the rest of Europe

Our Hotline is available from 9 am to 6 pm (Monday to Friday) E-Mail: di.support@olympus-europa.com

L-Mail: di.support@orympus-curopa.com